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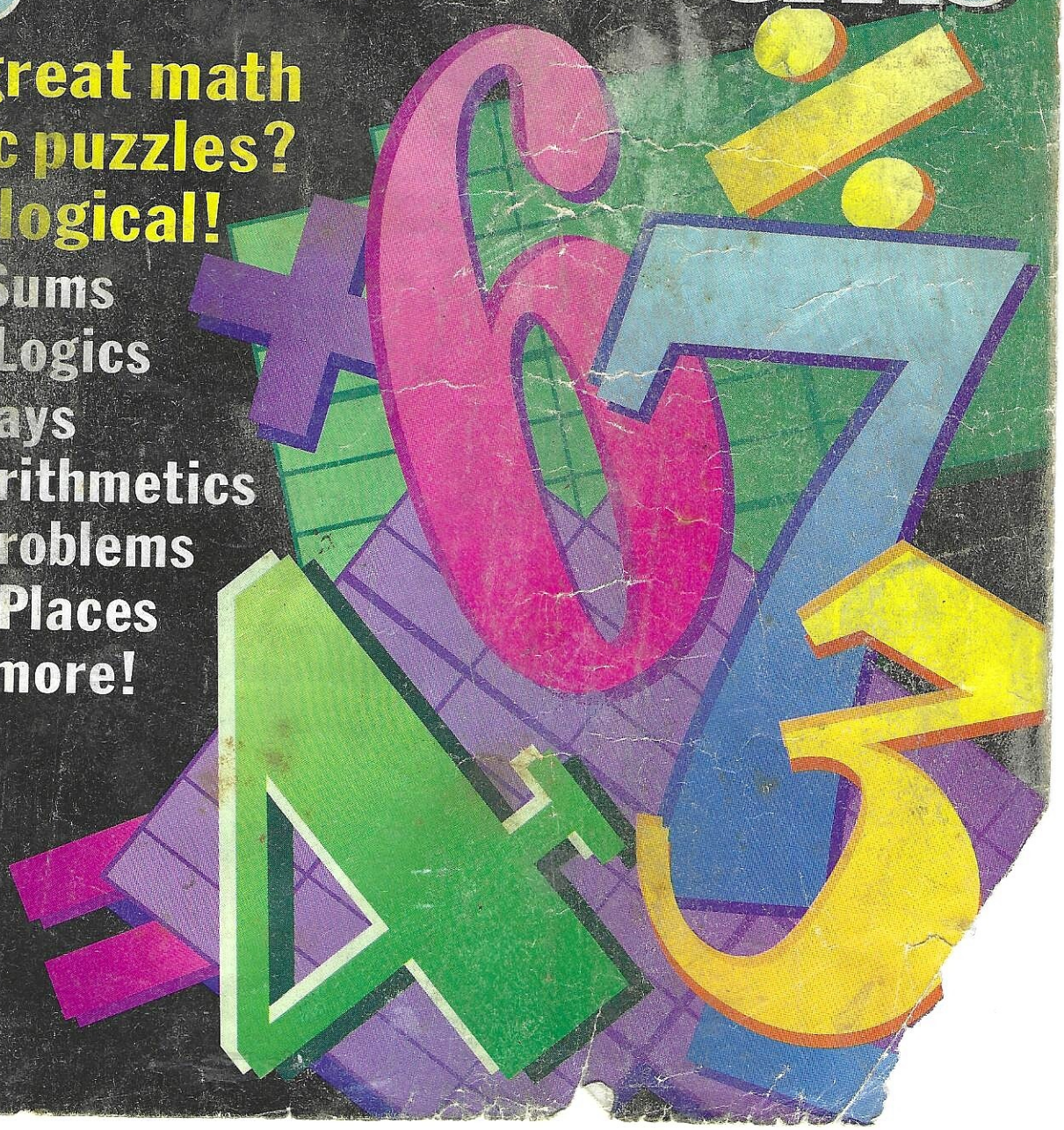

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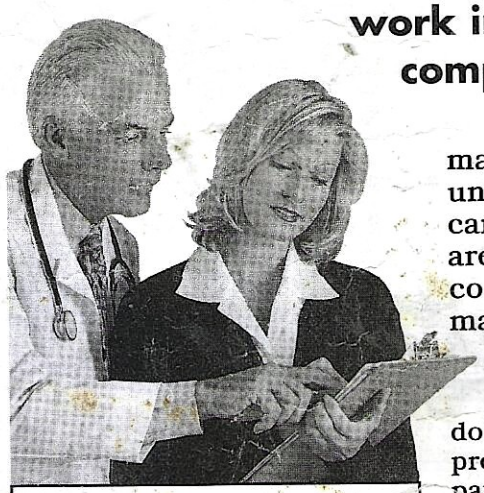

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Dell September 2000

Dell Math Puzzles AND Logic Problems

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Cover illustration by O'Neil Nanco

On-sale dates for Dell puzzle magazines are on page 65.

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EQUATIONS FROM THE EDITORS

Solvers, since you're a pretty number-oriented bunch, we thought we would present you with ten equations that describe just some of what's in this issue of *Dell Math Puzzles and Logic Problems*. Naturally, a detailed explanation will follow each formula...

20CS = lof
(20 Cross Sums are lots of fun)

ItB + TEoS = p6
(In the Balance and The Earl of Sandwiches make up page 6)

10FL – sh = t
(solving 10 Figure Logics without consulting their starting helps can be tricky)

BP^2 = awc
(2 Bingo Plays are a winning combination)

45WA + 4BWA = 1b ÷ f
(49 Word Arithmetics along with 4 Bonus Word Arithmetics comprise one big division feast)

15LP = $^{ab}/_{wyst}$
(15 Logic Problems may be a bit overwhelming yet still terrific)

3MM = (MMMMMMMMM)^3
(3 Math Mazes will make you say "MMMMMMMMM" three times)

ND x OtR = ymr
(solving On the Run right after Number Decathlon should have your mind racing)

9NP + 1NPC = WOW!
(9 Number Places and one huge Number Place Challenger are...well, WOW!)

DMPaLP = tbmalea
(*Dell Math Puzzles and Logic Problems* is the best math and logic entertainment around)

What's your equation to make this magazine even better? Tell us by writing to:

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the Editors

The next issue of *Dell Math Puzzles and Logic Problems* goes on sale September 12.
Thank you for selecting Dell.

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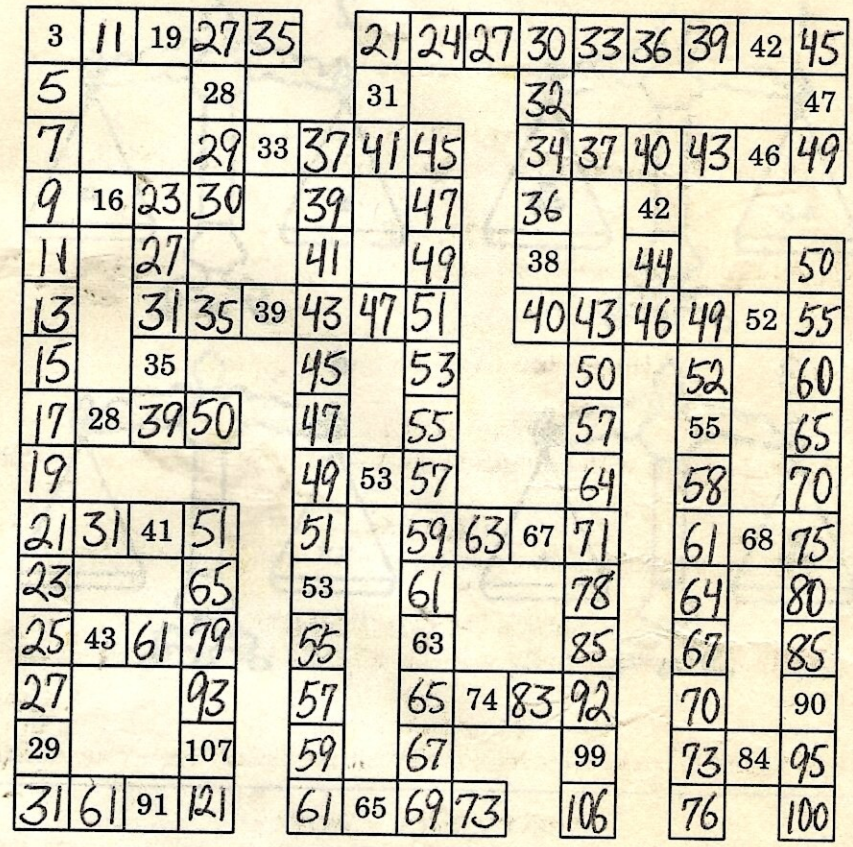
NUMBER FILL-IN

In this puzzle, the numbers to be entered into each row across and each column down will form a numerical sequence with the numbers already in the diagram. For example, if you saw the numbers 5, ?, 15 already in the puzzle, you could figure out that the missing number is 10, and the sequence involves adding 5 to each number to get the next number. The sequences always increase from LEFT to RIGHT and from TOP to BOTTOM. See if you can figure out each sequence and fill in all the missing numbers.

Solution is on page 61.



ALL IN A ROW

Which row below contains the most groups of consecutive numbers adding up to 17? Look carefully, because some groups may overlap. We've underlined an example of a group in each row to start you off.

Answer is on page 65.

A. 5 5 5 2 6 9 <u>1 6 4 3 3</u> 3 3 3 2 9 9 8 1 5 8 1 2 4 2 7 7 7 5 5

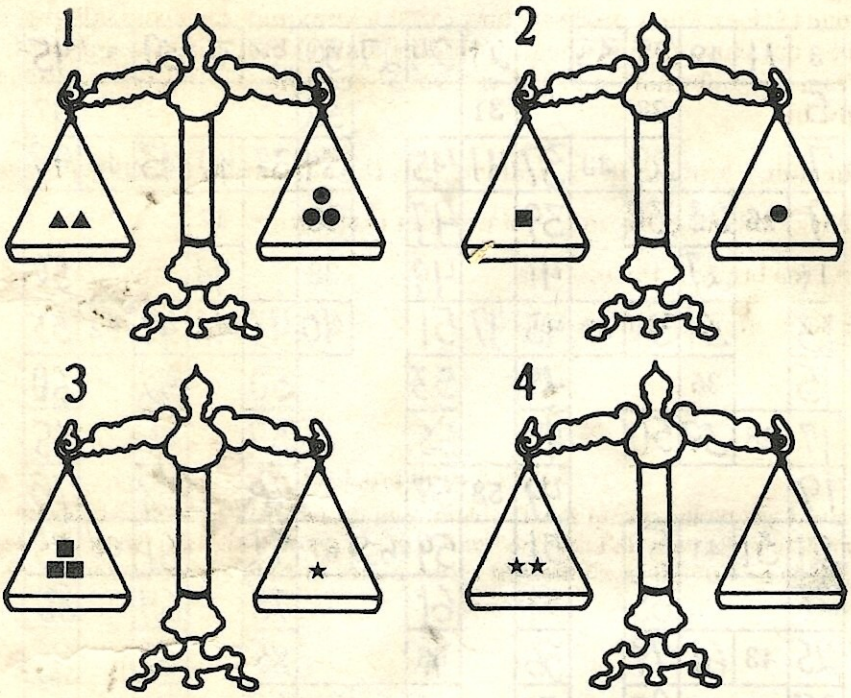
B. 6 4 9 4 9 4 8 2 <u>1 5 5 5 1</u> 7 3 2 5 9 4 3 3 3 8 4 2 6 6 3 1 9

C. 8 7 2 <u>3 8 1 5</u> 6 6 9 6 2 1 2 3 4 5 8 9 7 1 5 2 2 2 2 2 2 1

IN THE BALANCE

Scales 1, 2, and 3 are perfectly balanced. Can you determine how many triangles it will take to balance scale 4?

Answer is on page 65.



THE EARL OF SANDWICHES

Earl Pumpernickel owns and operates The Earl of Sandwiches, a profitable catering business in Logictown. Recently, Earl was lucky enough to land a lucrative contract that will enable him to supply food for the Bigg Corporation for an entire month of lunch conferences. For the upcoming week, for example, he knows that Friday's meeting will require twelve more sandwiches than Tuesday's meeting, which will require six fewer sandwiches than Monday's, which will require twenty more sandwiches than Wednesday's, which will require five fewer sandwiches than Thursday's. If the number of sandwiches ordered for the conference that calls for the fewest will be fifty, how many sandwiches will Earl need to make for the Bigg Corporation each day next week?

Answer is on page 65

LOGIC PROBLEM

1. FRUIT OF THE LOONS

by Mary Marks Cezus

Peel and the three other employees in the personnel department of Vitamin-C Industries couldn't believe their citrus-y good luck when a bowl of kumquats, courtesy of the management, greeted them at work Monday morning. Although none of them knew precisely how to eat a kumquat, they were all grateful for the corporate largesse, and, not to be outdone, each of them (including Barry) brought in a different, somewhat unusual fruit the next day. From the information below, can you determine the full name of each coworker and the fruit he or she brought in?

1. Neither Rita (who didn't bring in the bergamots) nor the one surnamed Rind supplied the quinces.
2. Core (who isn't Nick) did not bring in the Malaysian rambutans.
3. Neither Cleo nor Tree brought the quinces.
4. Neither Rita nor Tree supplied the pomelos.

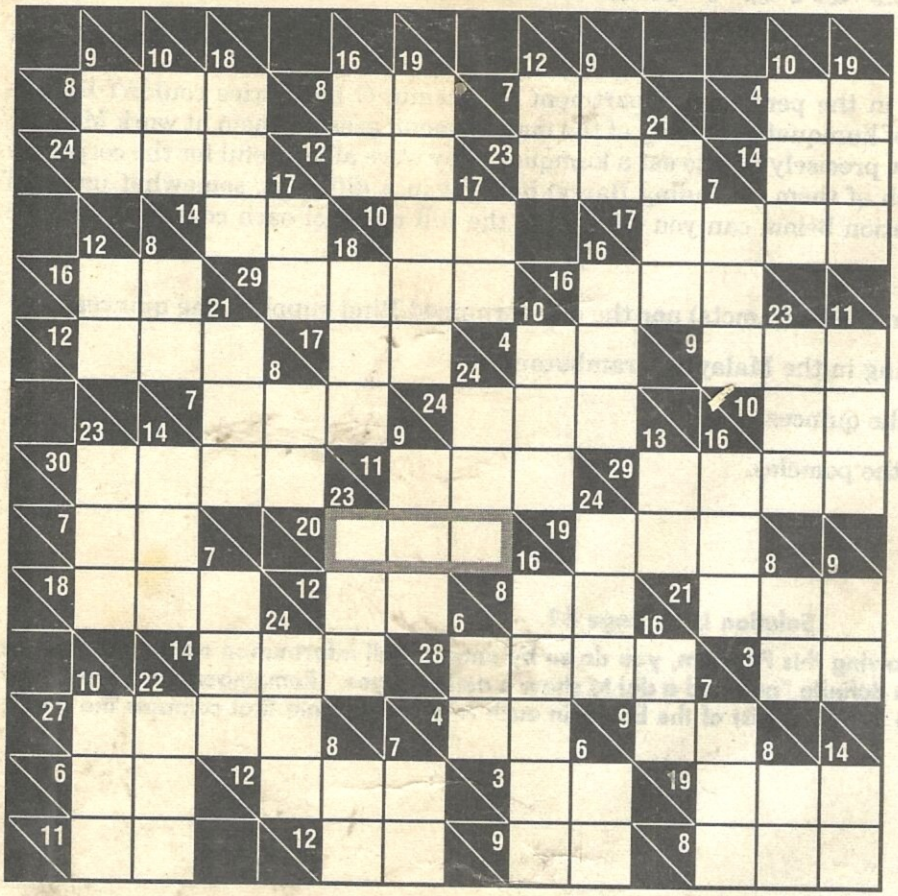
Solution is on page 62.

If you care to use the chart below in solving this Problem, you do so by entering all information obtained from the clues using, perhaps, an X to indicate a definite "no" and a dot to show a definite "yes." Remember: Once you enter a definite "yes" (dot), place a "no" (X) in all the rest of the boxes in each row and column that contains the dot.

	Core	Peel	Rind	Tree	bergamots	pomelos	quinces	rambutans
Barry		X						X
Cleo		X		X			X	X
Nick	X	X						X
Rita	X	•	X	X	X	X	X	•
bergamots	X	X	X	•				
pomelos	X	X	•	X				
quinces	•	X	X	X				
rambutans	X	•	X	X				

If you wish to learn more about the use of Logic Problem charts and how they can assist you, send for a free leaflet of easy-to-follow instructions, "Solving Logic Problems, Step by Step." Mail to Dell Math Puzzles and Logic Problems, Dept. L.P., Dell Magazines Direct, 6 Prowitt St., Norwalk, CT 06855-1220. Please enclose a stamped, self-addressed envelope (long-letter size, if possible, please).

CROSS SUMS

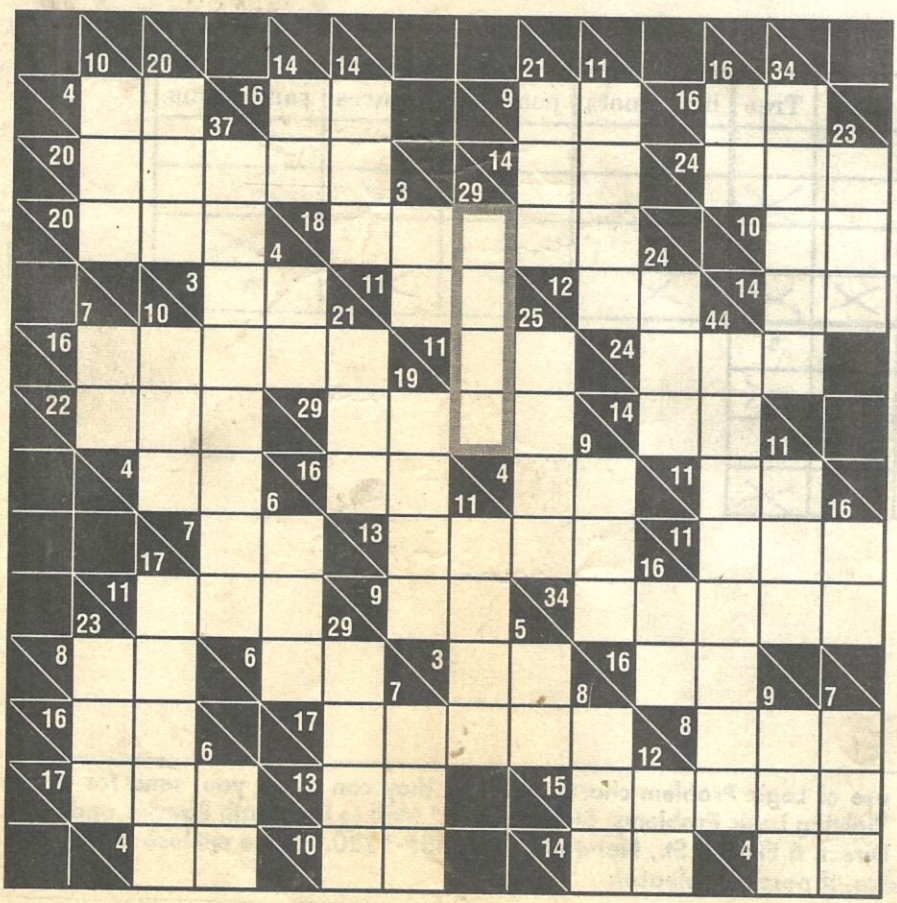


1.

In Cross Sums puzzles, the numbers in the black squares refer to the SUMS of the digits which you are to fill into the empty spaces. The number ABOVE the diagonal line refers to the empty spaces directly to the RIGHT of that number. A number BELOW the diagonal line refers to the empty spaces directly BELOW that number.

No zeros are used here, only the digits one through nine. An important point: A digit cannot appear more than once in any particular digit combination. We have outlined one area in each diagram on these two pages. If you need help starting a puzzle, the digit combination to go into that area is listed on page 66.

Solutions are on page 59.



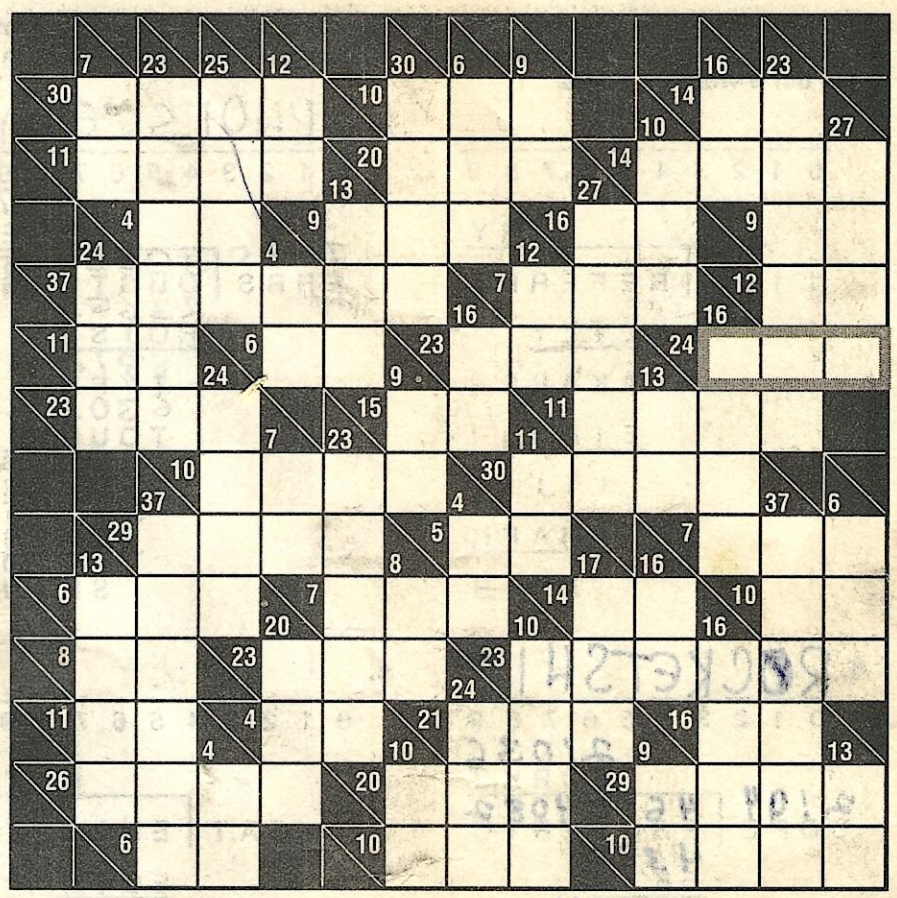
2.

Add more to your total puzzle enjoyment with ***Collector's Series Cross Sums.*** *You'll find over 100 of your favorites. To order, see page 23.*

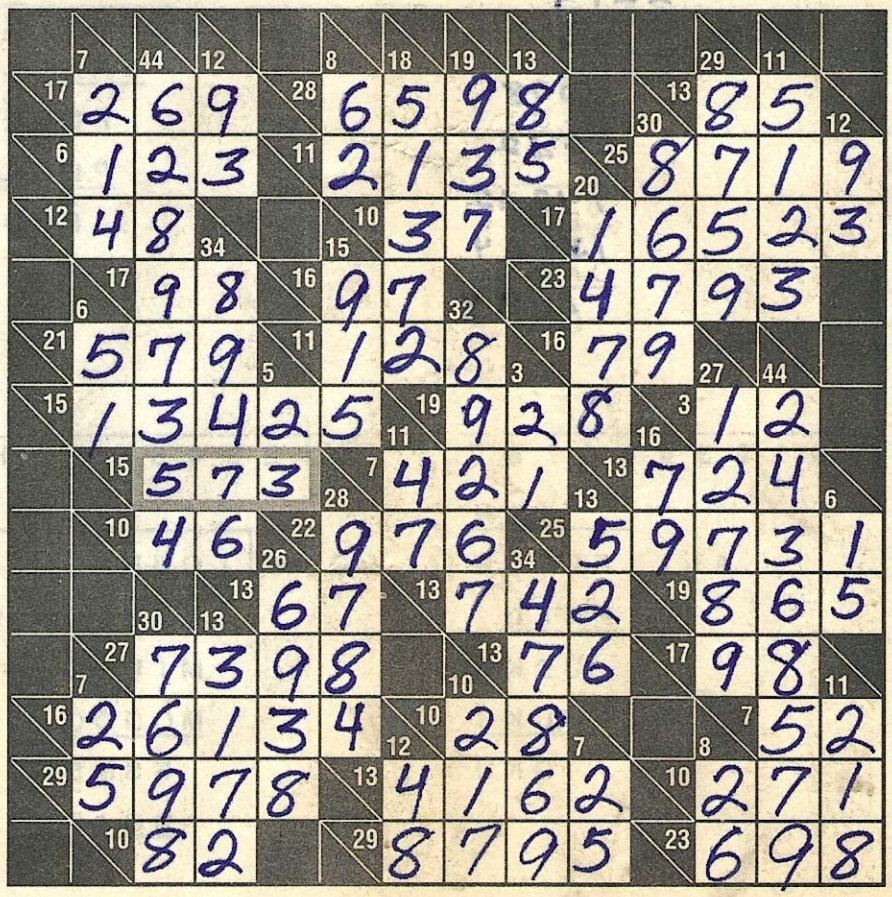
CROSS SUMS

Solutions are on page 59.

3.



4.



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WORD ARITHMETIC

These are long-division problems in which letters are substituted for numbers. Solve the problem; determine the number value of each letter; and, when the letters in each one have been arranged in order from 0 to 9, they will spell out a word or words.

Answers are on page 66.

1.

0 1 2 3 4 5 6 7 8 9

```
          RAY
    ------------
LILY | REFEREE
       LILY
       ----
       AKAEE
       EIHSH
       -----
        LIIIE
        HHAFR
        -----
         LEIR
```

2. UPHOLSTERY

0 1 2 3 4 5 6 7 8 9

```
          387
          ORE
    ------------
7885 | 30567 85
ERRS | OUSTERS
       23655
       HOTSS
       -----
       61128
        TYPHR
        63080
        TOURU
        -----
         60485
         TULRS
         55195
         SSPYS
         -----
          5290
          SHYU
```

3.

0 1 2 3 4 5 6 7 8 9

```
          NOW
    ------------
RENT | WARRANT
       WUAET
       -----
        OTEAN
        RENT
        ----
        WTSNT
        OARUT
        -----
         WQAT
```

4. ROCKETSHIP

0 1 2 3 4 5 6 7 8 9

```
          21036
          CORKS
    ------------
2194 | 46154082
COPE | ESOTERIC
       4388
       EKII
       -----
       2274
        CCHE
        2194
        COPE
        ----
        8008
         IRRI
         6582
         STIC
         -----
         14262
          OECSC
          13164
          OKOSE
          -----
           1098
           ORPI
```

5.

0 1 2 3 4 5 6 7 8 9

```
          NET
    ------------
OAT | ENGAGE
      EGTN
      ----
       EGSG
       DRPS
       ----
        POEE
        PDPA
        ----
         EPD
```

6.

0 1 2 3 4 5 6 7 8 9

```
          BIG
    ------------
UNIT | CUNNING
       CLIIG
       -----
        BBSN
        UNIT
        ----
        IBULG
        ITNGB
        -----
         TUHT
```

7.

0 1 2 3 4 5 6 7 8 9

```
          AN
    ------------
ALL | FLOOR
      FNLU
      ----
       UDKR
       UUKS
       ----
        OKU
```

8.

0 1 2 3 4 5 6 7 8 9

```
          EONS
    ------------
ROOM | LONESOME
       LMMSE
       -----
        MIDEO
        MODDO
        -----
         ESMSM
         DGIRN
         -----
          LLLE
```

9.

0 1 2 3 4 5 6 7 8 9

```
          SOAR
    ------------
RIDS | DISTURB
       DUKS
       ----
        BIRU
        BKDA
        ----
         OURB
         RIDS
         ----
          SRI
```

FIGURE LOGIC 1

by Linda Thistle

Solve Figure Logic by completing some simple arithmetic problems, which will enable you to move from clue to clue through the puzzle. You will not always be able to complete an entire number at first, but you may be able, by logic, to determine what one or more of the digits must be. If you enter those digits into the diagram, they may help you to solve other clues, and you can eventually return to the unfinished numbers and finally complete them. NOTE: A square of a number is that number multiplied by itself. For example, the square of 6 is 36 (6 x 6 = 36).

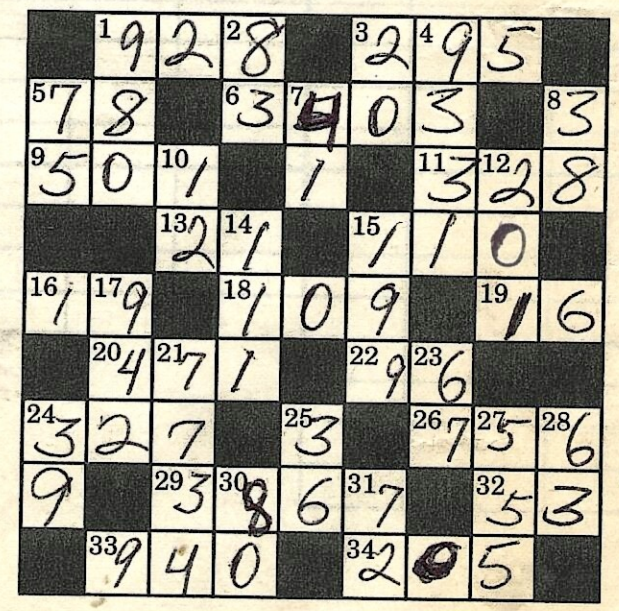
A starting help is given for this puzzle on page 66.

ACROSS

1. Six hundred more than 11-Across
3. One-fourth of 1-Down
5. Two times 24-Down
6. 2-Down times 7-Down
9. Three hundred more than 12-Down
11. One more than 24-Across
13. One-third of 28-Down
15. One less than 14-Down
16. One less than 3-Down
18. Ninety less than 15-Down
19. 25-Down minus 3-Down
20. Thirty less than 9-Across
22. 19-Across plus 30-Down
24. Three times 18-Across
26. 13-Across times 25-Down
29. One-half of 21-Down
32. 7-Down plus 10-Down
33. Two less than 17-Down
34. Forty less than 3-Across

DOWN

1. Forty more than 33-Across
2. 3-Down plus 28-Down
3. One-fourth of 30-Down
4. 1-Across plus 6-Across
5. 22-Across minus 13-Across
7. One-fifth of 34-Across
8. Two times 16-Across
10. One-eighth of 22-Across
12. Three times 23-Down
14. One-fifth of 27-Down
15. Six less than 34-Across
17. Two times 20-Across
21. 6-Across plus 4-Down
23. 2-Down minus 19-Across
24. One more than 8-Down
25. Three times 10-Down
27. 26-Across minus 12-Down
28. Four less than 23-Down
30. 7-Down plus 24-Down
31. Six less than 5-Across



a $40 cheese burger with fries? What will they think of next?

Solution is on page 60

Crazy about Figure Logic? See page 23 to order the ***Collector's Series Edition!***

LOGIC PROBLEM

2. THE LAND DOWN UNDER

by Diane Baldwin

Curtis had a swell time on his trip to Australia last year. On each day Tuesday through Friday, he sent a postcard from a different city (including Canberra) to a different friend (one is Bruce). For consistency's sake, Curtis made sure that each postcard featured a different animal indigenous to Australia. From the clues below, can you determine each friend's postcard's city of origin, animal, and mailing day?

1. He sent Sheila a postcard the day after he sent one featuring a playful kookaburra, and the day before he sent one from Adelaide.
2. Curtis sent the postcard from Sydney the day before sending the one with the echidna.
3. Matilda's postcard was sent sometime before the one with the bandicoot, and the day after the one from Melbourne.
4. He sent a postcard to Ned sometime before sending the one featuring the wallaby.

Solution is on page 62.
See page 7 for directions on how to use the solving chart.

	Adelaide	Canberra	Melbourne	Sydney	bandicoot	echidna	kookaburra	wallaby	Tu	W	Th	F
Bruce												
Matilda												
Ned												
Sheila												
Tuesday												
Wednesday												
Thursday												
Friday												
bandicoot												
echidna												
kookaburra												
wallaby												

BINGO PLAYS 1

In this puzzle, you are trying to make a winning Bingo game. Just as in Bingo, each column has limits set for the numbers that can be placed in that column. For example, in column B, every square will have a number between 1 and 15 inclusive; in column N, every number will be between 31 and 45 inclusive. Use the given clues to eliminate possibilities within those limits until you are left with one final number in each square. A number will appear only once in any column. The "free" space in the center of the card is just that; you need not enter a number in that square. After your card has only one number remaining in each square, find the Bingo winning combination: Just as in Bingo, the numbers in one row, column, or diagonal will fit the clues given. Circle these numbers and you have won the game!

Solution is on page 60.

1. The number one does not appear in row P or S, column N or G, square LI, AO, YI, or YO, or in the winning combination.
2. The number two does not appear in column B, G, or O, or square PN, LN, AI, or YN.
3. The number three does not appear on the card as a single-digit number, nor does it appear in row L or A, column I or G, or square YN or SO.
4. The number four does not appear in row P or S, column B or O, or square YI.
5. The number five does not appear in column I, square PN, LN, AB, or SN, or in the winning combination.
6. The number six does not appear on the card as a single-digit number, nor does it appear in row S, column I, or square PN, LO, or AG.
7. The number seven does not appear in row P, column G, or square AI, AO, YO, or SN.
8. The number eight does not appear on the card as a single-digit number, nor does it appear in row Y, column N or G, or square PI, LI, AO, or SI.
9. The number nine does not appear on the card as a single-digit number, nor does it appear in row A or Y or square PI or PO.
10. Zero does not appear in column G or square LB, LN, LO, AB, YB, YN, or SO.
11. The number 44 is the only same-digit double-number combination on the card.

	B	I	N	G	O
P	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	16 17 18 19 20 21 22 23 24 25 26 27 28 29 30	31 32 33 34 35 36 37 38 39 40 41 42 43 44 45	46 47 48 49 50 51 52 53 54 55 56 57 58 59 60	61 62 63 64 65 66 67 68 69 70 71 72 73 74 75
L	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	16 17 18 19 20 21 22 23 24 25 26 27 28 29 30	31 32 33 34 35 36 37 38 39 40 41 42 43 44 45	46 47 48 49 50 51 52 53 54 55 56 57 58 59 60	61 62 63 64 65 66 67 68 69 70 71 72 73 74 75
A	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	16 17 18 19 20 21 22 23 24 25 26 27 28 29 30	FREE	46 47 48 49 50 51 52 53 54 55 56 57 58 59 60	61 62 63 64 65 66 67 68 69 70 71 72 73 74 75
Y	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	16 17 18 19 20 21 22 23 24 25 26 27 28 29 30	31 32 33 34 35 36 37 38 39 40 41 42 43 44 45	46 47 48 49 50 51 52 53 54 55 56 57 58 59 60	61 62 63 64 65 66 67 68 69 70 71 72 73 74 75
S	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	16 17 18 19 20 21 22 23 24 25 26 27 28 29 30	31 32 33 34 35 36 37 38 39 40 41 42 43 44 45	46 47 48 49 50 51 52 53 54 55 56 57 58 59 60	61 62 63 64 65 66 67 68 69 70 71 72 73 74 75

LOGIC PROBLEM

3. VIVA THE DIVA!

by Varda Maslowski

Oh, that Vandalay! Surely, one of the secrets to the legendary pop star's longevity in the notoriously flash-in-the-pan music industry is her ability to constantly reinvent her image. A recent television retrospective of her career in the 1990s pointed this out, as it showed clips from four of the diva's biggest videos, each from a different year (1991, 1992, 1995, or 1996). Not only does each video show Vandalay in a different incarnation, but each also introduces a different one of the songstress's signature dance moves (the Diva Stomp, the Finger Point, the Girlpower, or the Hat Trick). From the information that follows, can you determine each look's video title, dance move, and year of introduction?

1. The four videos are the one featuring the Theda Bara look, "Sayonara," the one in which Vandalay introduced the Finger Point, and the 1995 release.
2. The video featuring the Amelia Earhart look (which didn't introduce the Girlpower) was released sometime earlier than "I'm Fabulous."
3. The video in which Vandalay affected the Bella Abzug look was released the year after the one in which she introduced the Hat Trick.
4. Her Greta Garbo look was not used in 1995.
5. "Aromatherapy" was released sometime after "You Never Know" (which didn't have the Theda Bara look).

Solution is on page 62.

See page 7 for directions on how to use the solving chart.

	"Aroma."	"I'm"	"Sayonara"	"You"	Diva	Finger	Girl.	Hat	1991	1992	1995	1996
Abzug												
Bara												
Earhart												
Garbo												
1991												
1992												
1995												
1996												
Diva Stomp												
Finger Point												
Girlpower												
Hat Trick												

KROSS NUMBER KRISS KROSSES

Fit the number combinations supplied with each diagram into their proper places in the puzzle squares. The combinations are in numerical order according to length. If you need help getting started, the numbers that go into the outlined areas are listed on page 66.

Solutions are on page 60.

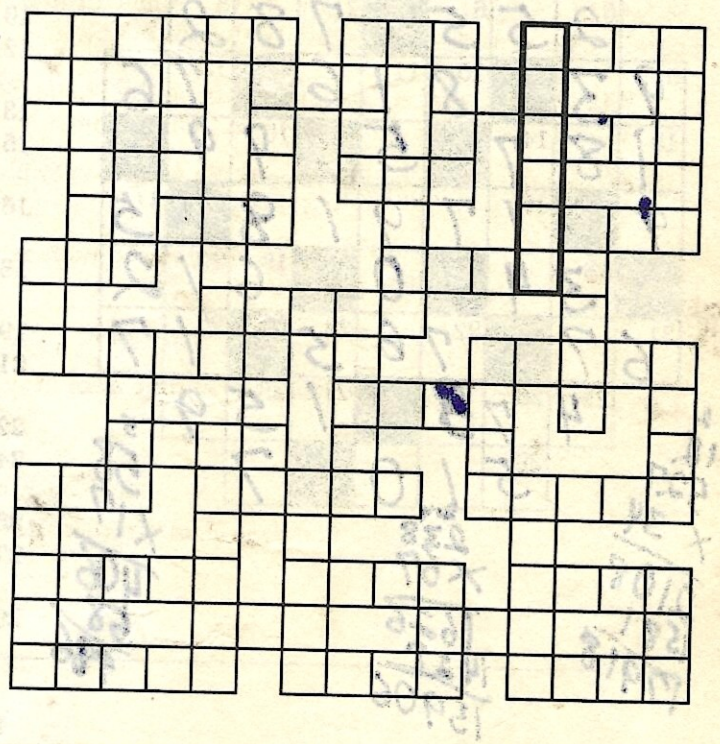
3 Digits
047
056
128
193
249
273
418
610
704
748
819
861
902

4 Digits
0123
1234
2398

5 Digits
10369
11360
11906
3220
4310
5190
6172
6173
6197
7298
7613
7842
9038
9746
9762
9781
9785
9787

6 Digits
009671
046178
111787
387601
12356
21230
30577
31748
38999
41983
44555
51097
61390
70981
81901
96355
98613

1.



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4 Digits
1260
4718
5096
5637
7151
7419
7593
9147
9678

6 Digits
100917
375149
574789
635573
728496
848346
868694
971982

8 Digits
12241987
48886243
49830664
52973058
57486236
57798834
59193848
61434377
81914397
85890059
94535791

2.

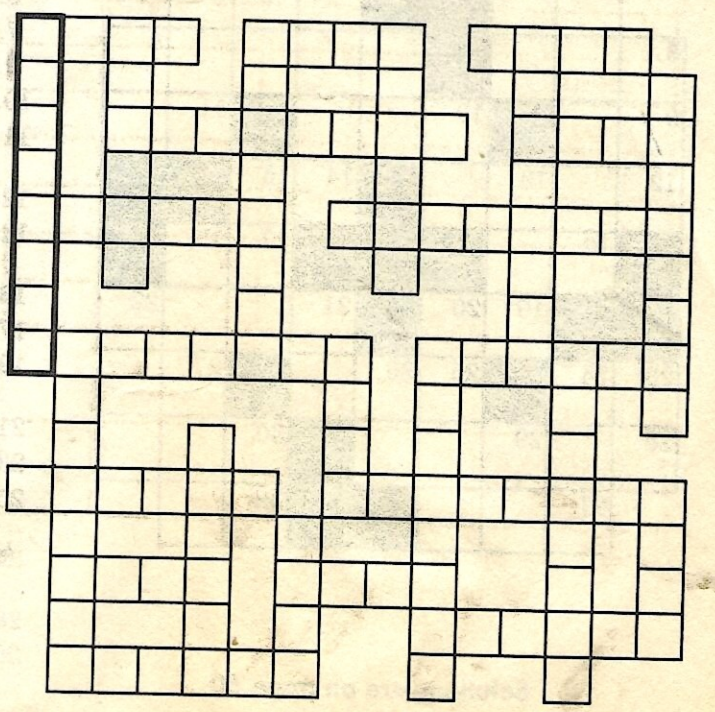
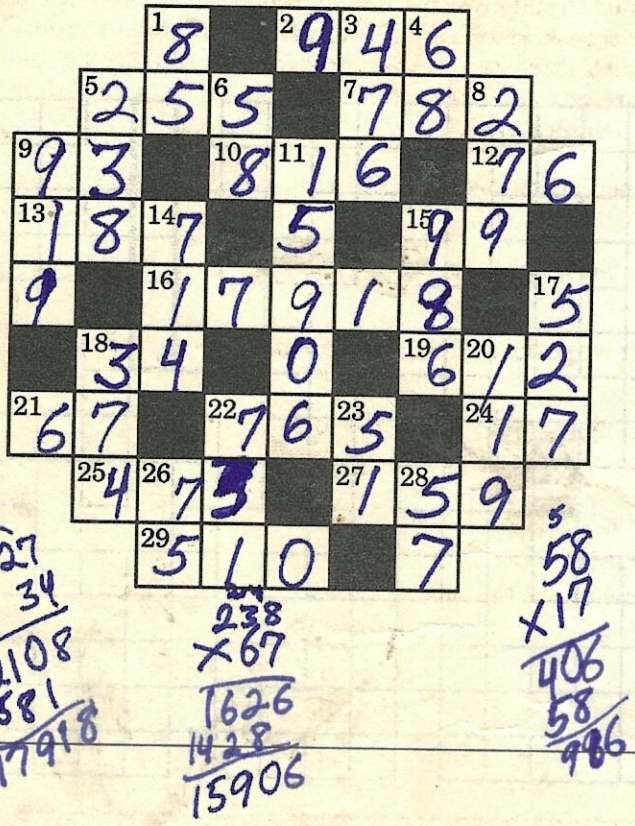


FIGURE LOGICS 2 & 3

by Linda Thistle

Directions for solving are on page 11. If you need help starting these puzzles, helps are given on page 66.

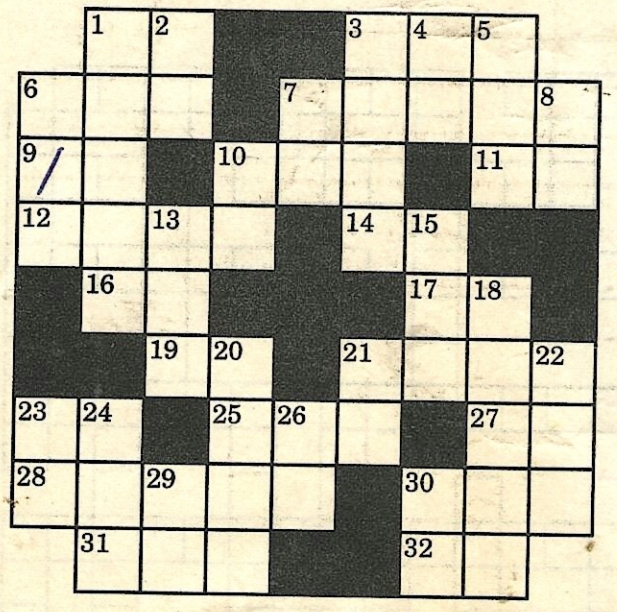


ACROSS

2. Last three digits of 11-Down
5. Three times 1-Down
7. 5-Across plus 17-Down
9. Six less than 15-Across
10. 22-Across plus 23-Down
12. Digits of 21-Across, reversed
13. 9-Down minus 22-Down
15. Twenty less than 20-Down
16. 18-Across times 17-Down
18. Consecutive digits in ascending order
19. 5-Down plus 18-Down
21. Consecutive digits in ascending order
22. Three times 5-Across
24. First two digits of 16-Across
25. One-half of 2-Across
27. First three digits of 11-Down
29. 15-Down minus 3-Down

DOWN

1. Nine more than 12-Across
3. Three more than 25-Across
4. One more than 21-Across
5. One-half of 3-Down
6. Digits of 1-Down, reversed
8. Three times 9-Across
9. Last three digits of 16-Across
11. 21-Across times 5-Down
14. Three times 5-Down
15. 24-Across times 6-Down
17. 14-Down minus 13-Across
18. Two times 13-Across
20. One-sixth of 14-Down
22. 15-Down minus 5-Across
23. One-tenth of 29-Across
26. Digits of 28-Down, reversed
28. One less than 6-Down



ACROSS

1. Digits of 4-Down, reversed
3. Digits of 6-Across, rearranged
6. One-half of 5-Down
7. Three times 12-Across
9. One-fifth of 19-Across
10. Nine times 30-Down
11. 10-Down minus 17-Across
12. Square of 10-Down
14. Consecutive digits in ascending order
16. Three less than 8-Down
17. One-third of 1-Across
19. One more than 27-Across
21. Nine times 6-Down
23. 8-Down plus 29-Down
25. Digits of 22-Down, rearranged
27. Digits of 29-Down, reversed
28. Square of 31-Across
30. Digits of 10-Across, rearranged
31. Digits of 24-Down, rearranged
32. 3-Across minus 25-Across

DOWN

1. 21-Across times 2-Down
2. Three times 9-Across
3. Square of 27-Across
4. One-fourth of 25-Across
5. Number halfway between 22-Down and 24-Down
6. Three times 23-Down
7. Two less than 17-Across
8. 1-Across minus 2-Down
10. One-third of 6-Across
13. 10-Across minus 6-Down
15. One-fourth of 3-Down
18. Five times 3-Down
20. 7-Across minus 18-Down
21. 1-Across minus 26-Down
22. Nine times 26-Down
23. Digits of 16-Across, reversed
24. 13-Down minus 25-Across
26. 11-Across minus 9-Across
29. Consecutive digits in ascending order
30. Three times 2-Down

Solutions are on page 60

LOGIC PROBLEM

4. SUITABLY UNSUITABLE

by David Champlin

Recently, socialite Olivia Megabucks threw a 1970s nostalgia party, including on the invitation a request that all guests come wearing their favorite clothes from that decade. Although she saw some pretty amusing clothing that night, she broke down laughing when the four Trendy brothers made their grand entrance, one after another, each wearing a brightly colored leisure suit accessorized with a fluorescent, patterned shirt. No two of the men wore the same color suit or the same pattern shirt, but you can be sure that all of them made quite an appearance! From the clues below, can you figure out each brother's suit color (one was coral) and shirt pattern, as well as the order in which they entered Olivia's party?

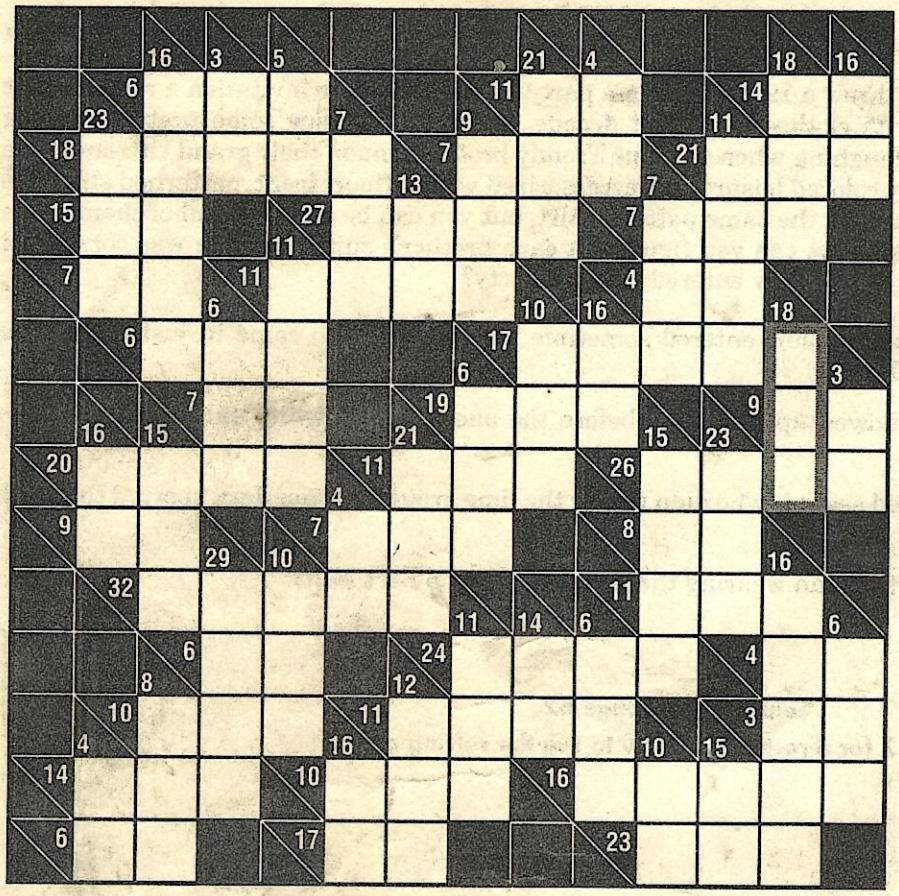
1. The guy wearing the maroon leisure suit entered sometime before Milt, who came in just before the brother wearing the polka-dot shirt.
2. The man in the paisley shirt showed up sometime before the one with the white suit, who made his entrance sometime before Leon.
3. Neither the brother who appeared second (who didn't wear the lime green suit) nor Jack sported the shirt with the zigzag pattern.
4. Kevin arrived sometime before the man wearing the floral shirt (who isn't Milt).

Solution is on page 62.

See page 7 for directions on how to use the solving chart.

	coral	lime	maroon	white	floral	paisley	polka-dot	zigzag	1st	2nd	3rd	4th
Jack												
Kevin												
Leon												
Milt												
1st												
2nd												
3rd												
4th												
floral												
paisley												
polka-dot												
zigzag												

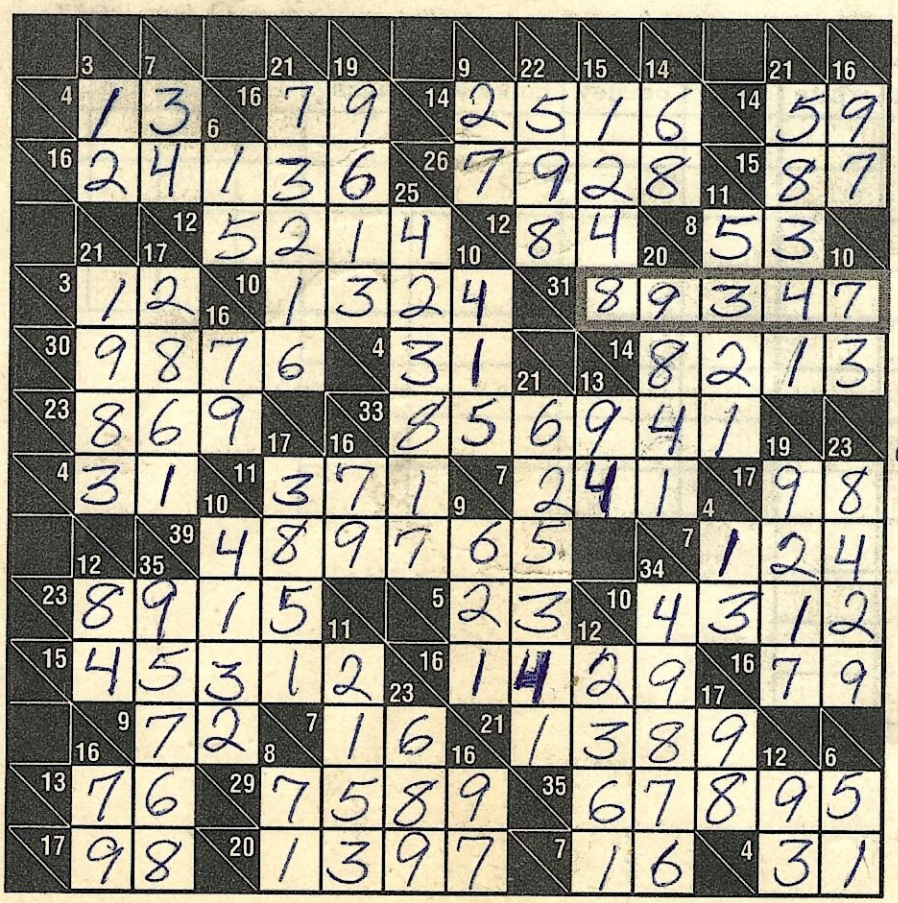
CROSS SUMS



5.

We have outlined one area in each diagram on these two pages. If you need help starting a puzzle, the digit combination to go into that area is listed on page 66.

Solutions are on page 59.



6.

24

25 30

53

9147

8213

6923

1

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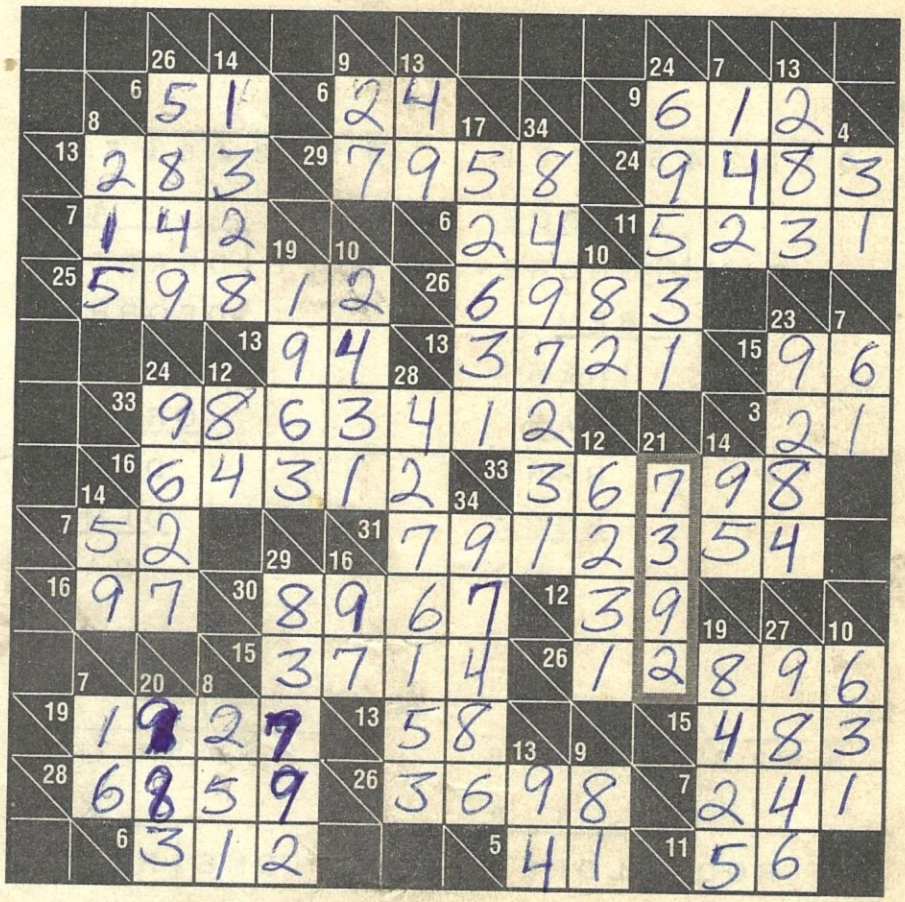
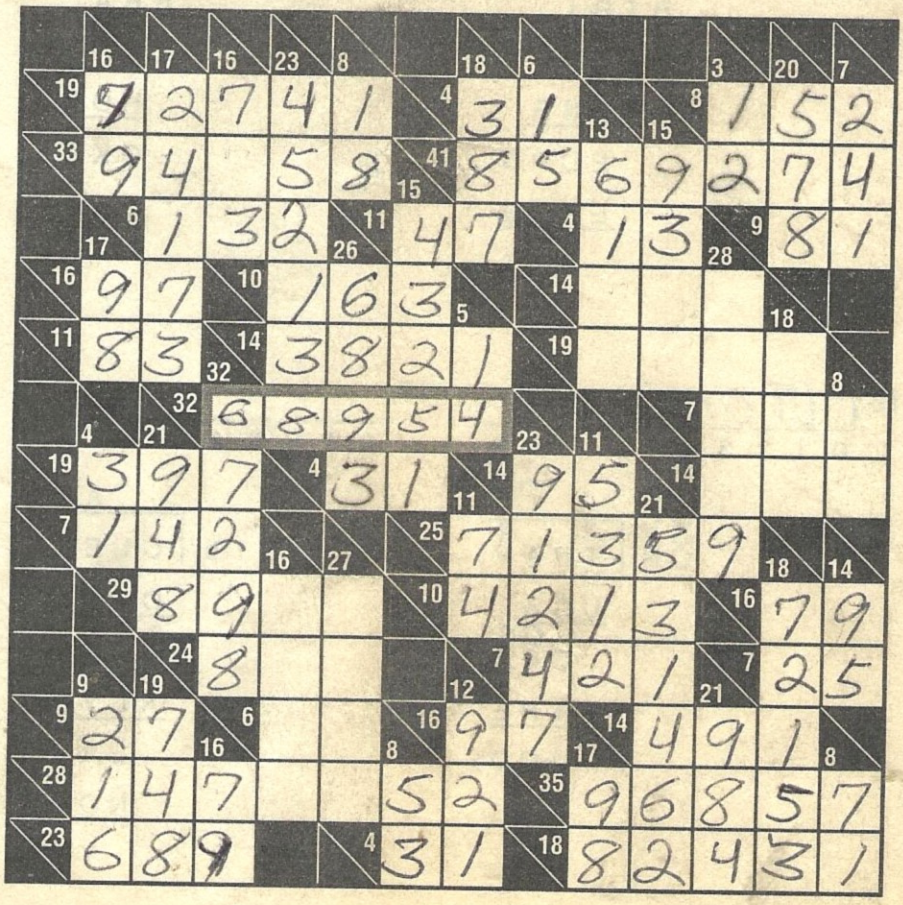
CROSS SUMS

Solutions are on page 59.

7.



8.



WORD ARITHMETIC

Answers are on page 66.

10.

0 1 2 3 4 5 6 7 8 9

```
        ROE
RAM | IGNORE
      IBEM
       INER
      IOAB
       RRRE
       RGCM
         MO
```

11.

0 1 2 3 4 5 6 7 8 9

```
        ANT
DATE | DRAFTED
      DEORR
       OLDNE
      ORRFN
       DLAAD
       DFMEL
         OARN
```

12.

0 1 2 3 4 5 6 7 8 9

```
         LA
LULL | CAROB
       YLYY
      UYKCB
      ULRKL
       UAUG
```

13.

0 1 2 3 4 5 6 7 8 9

```
        TIP
ROD | SLOPED
      BTRI
       EEOE
      TPSR
       EDPD
       EEES
         BTT
```

14.

0 1 2 3 4 5 6 7 8 9

```
        KEN
ONE | ROPES
      ERA
       ARE
      HOS
       OKRS
       OKOO
         ED
```

15.

0 1 2 3 4 5 6 7 8 9

```
         TO
OUR | STOUT
       SLSM
      EHTT
      EHMS
       OB
```

16. PUTONA

0 1 2 3 4 5 6 7 8 9

```
        23
        TO
34    2 0
ON  | TRAP
      UCA
       00
       OPP
      IRE
        OO
```

17.

0 1 2 3 4 5 6 7 8 9

```
        ANY
OIL | CLEAN
      OIL
       AOOA
      ALYO
       LAVN
       NOEN
         YOM
```

18.

0 1 2 3 4 5 6 7 8 9

```
        USE
HOST | MOROSE
      HOST
      UEMIS
      UTIIH
      HTEHE
      HRCRO
        TIHS
```

LOGIC PROBLEM

5. IT WAS WORTH A SHOT

by Jean Upshall

One night last week, the five starting players on the Delta Phi basketball team were spending a relaxing evening in their sorority room. One after another, each of the friends attempted to toss a different object into the trash can in the corner. The reason for the team's last-place showing became obvious, though, when each shot missed and wound up hitting something else! From the information that follows, can you determine what each woman threw, what she hit, and the order of the five errant tosses?

1. Linda threw her apple core away two hours before another teammate (who isn't Debbie) succeeded in knocking the telephone off the table with a magazine.
2. As Zena was watching the news, she was startled by an item hitting the TV screen and turned around to see who threw it.
3. Debbie threw an item sometime after a soda can knocked the calendar off the wall.
4. The coffee cup landed on the bookcase at some point before another item hit the closed window.
5. Sybil's shot was one hour before Carol's.
6. Zena threw the bag of chips, but not last.

Solution is on page 62.
See page 7 for directions on how to use the solving chart.

	can	chips	core	cup	mag.	book.	calen.	phone	TV	window	1st	2nd	3rd	4th	5th
Carol															
Debbie															
Linda															
Sybil															
Zena															
1st															
2nd															
3rd															
4th															
5th															
bookcase															
calendar															
phone															
TV															
window															

BINGO PLAYS 2

Directions for solving are on page 13.

Solution is on page 60.

1. The number one does not appear on the card as a single-digit number, nor does it appear in column G, square PB, PN, PO, LN, AB, or AO, or in the winning combination.
2. The number two does not appear in row S, column O, or square PN, LB, LI, or YN.
3. The number three does not appear in row L, column B or I, or square PN, AG, YG, YO, or SO.
4. The number four does not appear in row A or Y, column B, square PI, PO, LG, SN, or SO, or in the winning combination.
5. The number five does not appear in row P or S, column B, I, or N, or square LO or YO.
6. The number six does not appear in square PI, PG, PO, LI, AB, AG, AO, YN, YG, or SG.
7. The number seven does not appear on the card as a single-digit number, nor does it appear in row L or Y, column I, or square AG, SN, or SO.
8. The number eight does not appear on the card as a single-digit number, nor does it appear in row A, column G, or square PI, YN, YO, or SN.
9. The number nine does not appear on the card as a single-digit number, nor does it appear in row Y or S, column I, or square LO.
10. Zero does not appear in row A or square PI, PO, LG, YI, YG, or SB.
11. The number 11 is the only same-digit double-number combination on the card.

B I N G O
P 6 21 40 49 73
L 10 18 42 56 64
A 2 26 X 59 75
Y 12 28 31 52 61
S 11 16 36 47 68

The winning coordination is:
2 26 X 59 75

	B	I	N	G	O
P	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	16 17 18 19 20 21 22 23 24 25 26 27 28 29 30	31 32 33 34 35 36 37 38 39 40 41 42 43 44 45	46 47 48 49 50 51 52 53 54 55 56 57 58 59 60	61 62 63 64 65 66 67 68 69 70 71 72 73 74 75
L	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	16 17 18 19 20 21 22 23 24 25 26 27 28 29 30	31 32 33 34 35 36 37 38 39 40 41 42 43 44 45	46 47 48 49 50 51 52 53 54 55 56 57 58 59 60	61 62 63 64 65 66 67 68 69 70 71 72 73 74 75
A	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	16 17 18 19 20 21 22 23 24 25 26 27 28 29 30	FREE	46 47 48 49 50 51 52 53 54 55 56 57 58 59 60	61 62 63 64 65 66 67 68 69 70 71 72 73 74 75
Y	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	16 17 18 19 20 21 22 23 24 25 26 27 28 29 30	31 32 33 34 35 36 37 38 39 40 41 42 43 44 45	46 47 48 49 50 51 52 53 54 55 56 57 58 59 60	61 62 63 64 65 66 67 68 69 70 71 72 73 74 75
S	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	16 17 18 19 20 21 22 23 24 25 26 27 28 29 30	31 32 33 34 35 36 37 38 39 40 41 42 43 44 45	46 47 48 49 50 51 52 53 54 55 56 57 58 59 60	61 62 63 64 65 66 67 68 69 70 71 72 73 74 75

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Changelings	CHG	1
Crosscodes	CRO	1
Cross Sums	SUM	10 11 12 13 14 15 16
Cryptic Crosswords	CRX	1
Cryptograms	DCG	1 2 3
Cryptoquizzes	CPQ	1 2 3
Figgerits	FIG	1 2 3 4
Figure Logic	FGL	1
Kriss Kross	KRK	1 2
Laddergrams	LDG	1
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FIGURE LOGIC 4

by Linda Thistle

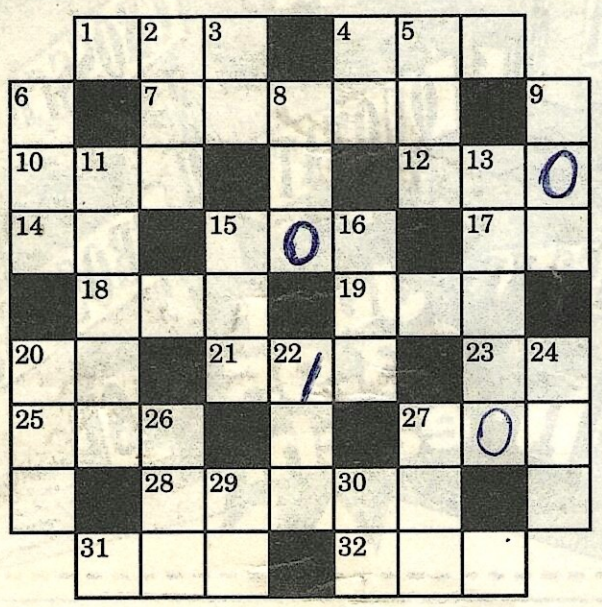
Directions for solving are on page 11. If you need help starting this puzzle, a help is given on page 66.

ACROSS

1. Digits of 19-Across, rearranged
4. Digits of 31-Across, rearranged
7. 5-Down times 6-Down
10. 27-Down minus 21-Across
12. 15-Across minus 6-Down
14. Three less than 17-Across
15. 2-Down minus 6-Down
17. One-third of 21-Across
18. Four times 24-Down
19. Six times 14-Across
20. Sixty less than 23-Across
21. Two less than 20-Down
23. Digits of 30-Down, reversed
25. One-fifth of 8-Down
27. One hundred more than 15-Across
28. 4-Across times 31-Across
31. One-third of 9-Down
32. 19-Across plus 27-Down

DOWN

2. Four times 22-Down
3. Two times 20-Across
4. Twenty more than 30-Down
5. Digits of 6-Down, rearranged
6. One-half of 10-Across
8. Ten times 23-Across
9. 32-Across minus 12-Across
11. 1-Across times 19-Across
13. 8-Down times 22-Down
15. Nine times 4-Down
16. Two more than 18-Across
20. 12-Across plus 4-Down
22. Digits of 8-Down, rearranged
24. One less than 25-Across
26. 10-Across plus 20-Across
27. Consecutive even digits in ascending order
29. One half of 22-Down
30. One-tenth of 12-Across



Solution is on page 60

WHAT'S YOUR NUMBER?

If you subtract 2 from our number and divide the result by 4, the answer will be your number. If you add 2 to our number and divide the result by 6, the answer will also be your number. What's your number?

Answer is on page 65.

OUR NUMBER _____ − 2 ÷ 4 = _____ YOUR NUMBER

_____ + 2 ÷ 6 = _____

LOGIC PROBLEM

6. SPOT CHECK

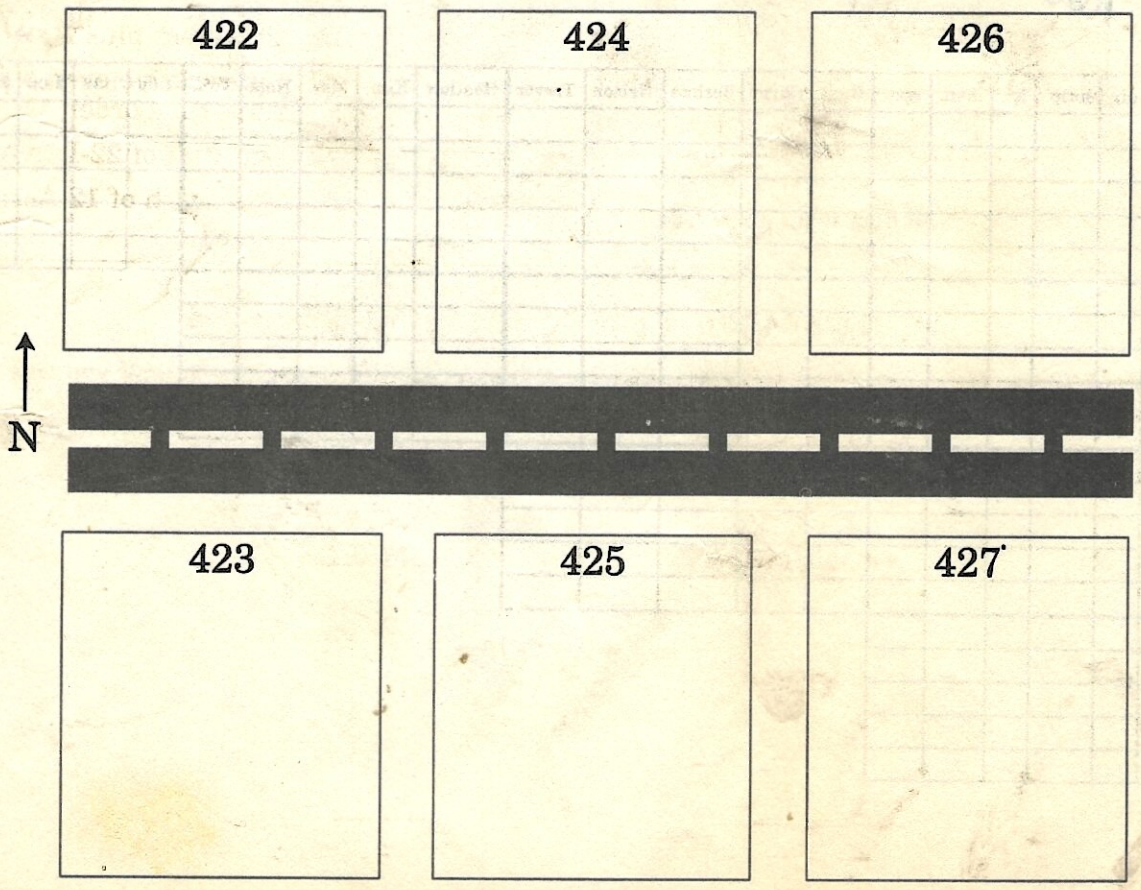
by Jean Upshall

"Oh, no, not a grease spot on my lovely new carpet!" groaned Nora to five of her Logic Street neighbors who were visiting to play canasta. "I know what it will take to get it out," the quintet said in unison, as they dashed off to their respective homes. When they returned, each had brought a different substance that she swore would remove the stain, so Nora agreed to try each solution, one after another if necessary. From the information below, can you figure out each woman's full name, address (422, 423, 424, 425, 426, or 427 as illustrated in the map below), and solution, as well as the order in which the five substances were tried? (Note: Obviously, you will need to determine only Nora's last name and address, since she had no solution.)

1. Ms. Dennison lives due south of Nora.
2. "Let's hope this works," said Val after the other four neighbors' solutions had been tried and failed.
3. Both Tina and Ms. Gibb live on the same side of the street as Nora, but neither lives in the middle home.
4. Ms. Ennis (who lives immediately due east of the woman who brought dog shampoo) lives on the same side of the street as the neighbor who swore that benzene would do the trick.
5. Nora tried Ruth's solution sometime before Ms. Frank's and sometime after the hydrogen peroxide.
6. Ms. Albert's address number is two higher than that of Ms. Condon (who isn't Betty) and two lower than that of the woman who brought the methyl hydrate.
7. Ruth lives somewhere due west of Wendy (whose solution was tried at some point after Betty's).
8. Val lives due north of the person who brought borax.

Solution is on page 62.

The map of Logic Street below was found to be of more help in solving this Problem than the usual chart.



LOGIC PROBLEM

7. SOAP BUBBLES

by Susan Zivich

Aunt Maggie focuses her afternoons on her five favorite soap operas, carefully following the continuing sagas of weddings, calamities, and romances. When Jenny, her niece, popped by for a visit, Maggie talked nonstop about the major crises occurring on each show, each of which airs at a different time in the afternoon (1:00, 1:30, 2:00, 2:30, or 3:00). At first, Jenny was very confused, but eventually she was able to match each show with its setting (one is set in a mansion), male and female lead characters, and airtime. Can you?

1. Christopher appears on "Wicked Lies."
2. "Daydreamers" comes on at 1:00, while the 2:00 show takes place at Community Hospital.
3. Kimberly plays the stewardess on the show set in an airport.
4. The show starring Joshua comes on just after the one with Nola and just before "Secrets."
5. Brad and Heather just eloped on one show.
6. "Long Island" is set in a popular restaurant.
7. Marcia plays a wealthy woman on the 1:30 show, and Nelson is the lawyer on the 3:00 program.
8. Trevor plays the manager of the island resort that is the setting for one of the shows.
9. Vanessa is the kindhearted brunette on "Sands of Time" (which doesn't air at 2:30).

The 2 Jokes
"Man I Feel Like a Giraffe"
Don't Rock the Boat
R & D Records

Solution is on page 62.

See page 7 for directions on how to use the solving chart.

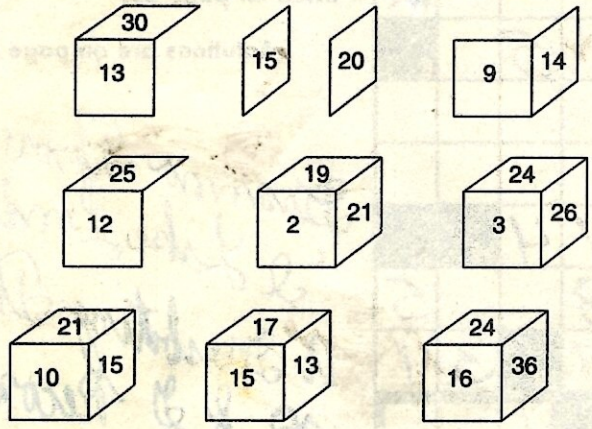
	air.	hosp.	isl.	man.	rest.	Brad	Chris.	Joshua	Nelson	Trevor	Heather	Kim.	Mar.	Nola	Van.	1:00	1:30	2:00	2:30	3:00
"Day."																				
"Long"																				
"Sands"																				
"Secrets"																				
"Wicked"																				
1:00																				
1:30																				
2:00																				
2:30																				
3:00																				
Heather																				
Kimberly																				
Marcia																				
Nola																				
Vanessa																				
Brad																				
Chris.																				
Joshua																				
Nelson																				
Trevor																				

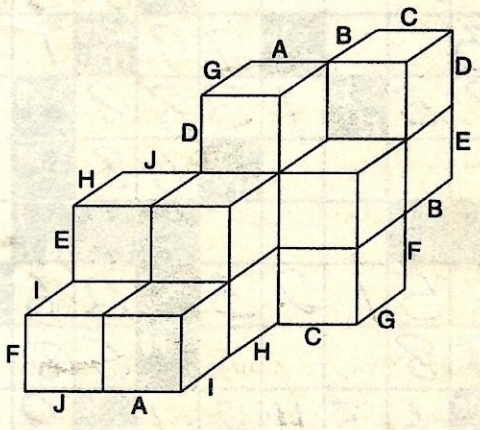
ON THE SURFACE

Here's a trio of three-dimensional puzzles that require both mathematical and spatial skills to solve. Fit the pieces on the left into each diagram on the right so that the numbers on the surfaces of each lettered row (from A to A, B to B, etc.) add up to the target number given. Do not rotate the pieces or fit a piece into a section of the diagram that does not match the piece exactly. For example, in the first puzzle below, the two-surfaced piece in the corner where the C and G rows meet can only be the two-surfaced piece with 9 and 14. Continue in the same manner until all the pieces are fit into the diagram.

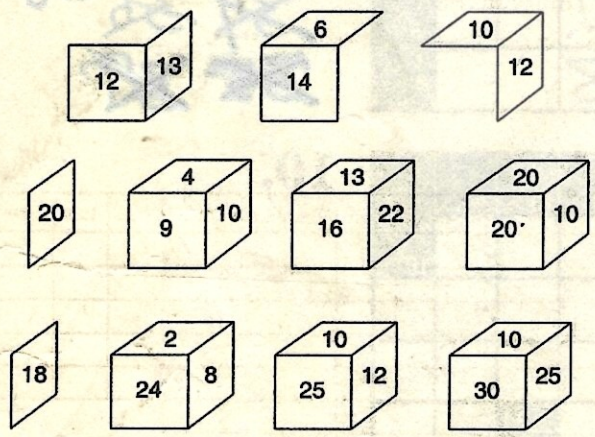
Solutions are on page 61.

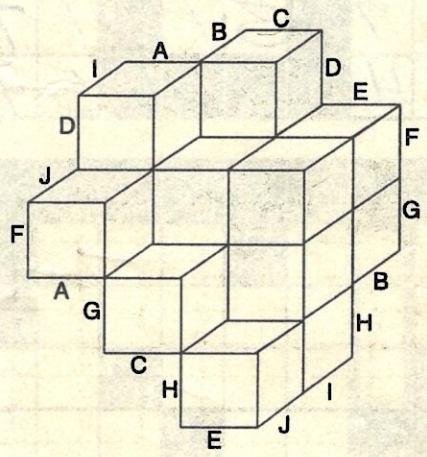
1. TARGET NUMBER: 80



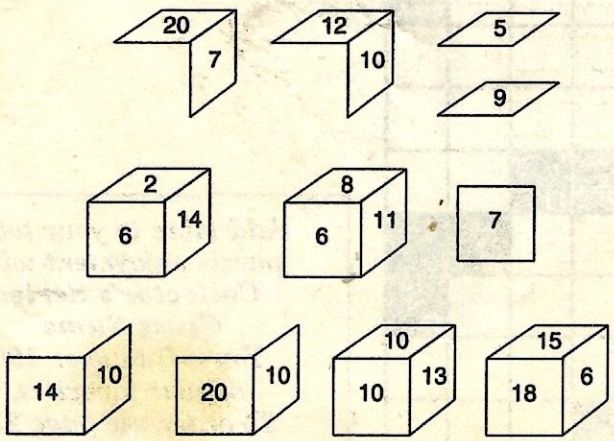


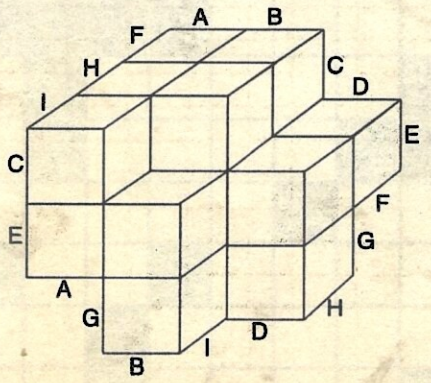
2. TARGET NUMBER: 75



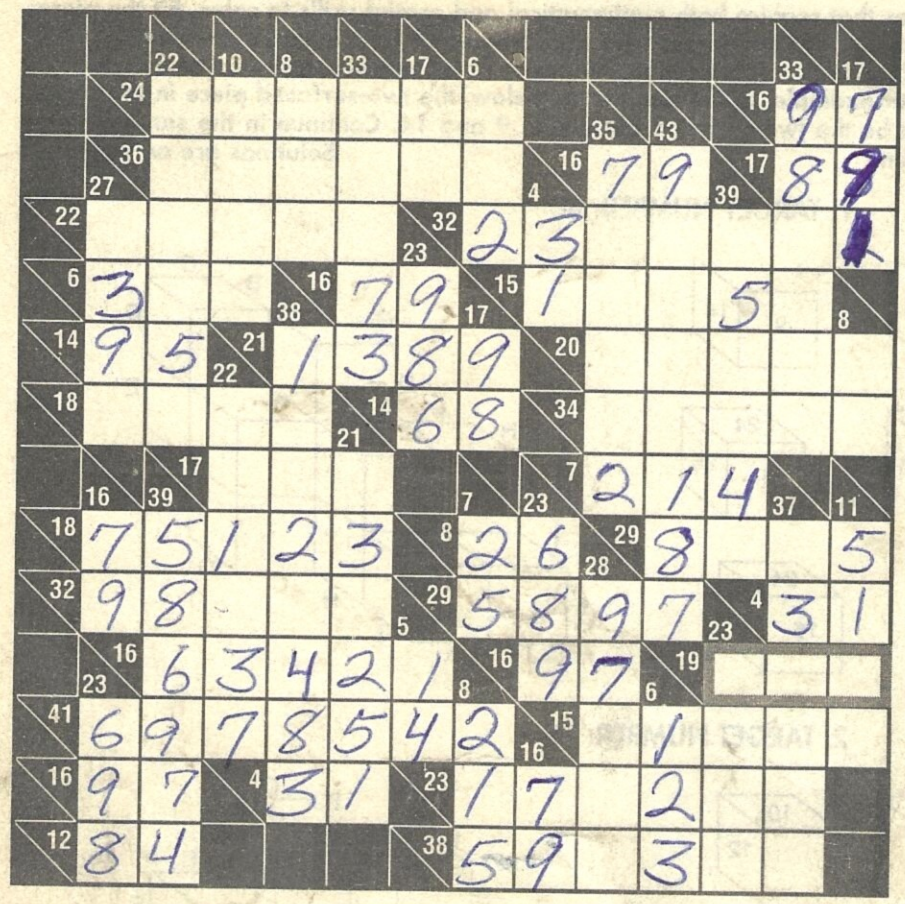


3. TARGET NUMBER: 54





CROSS SUMS



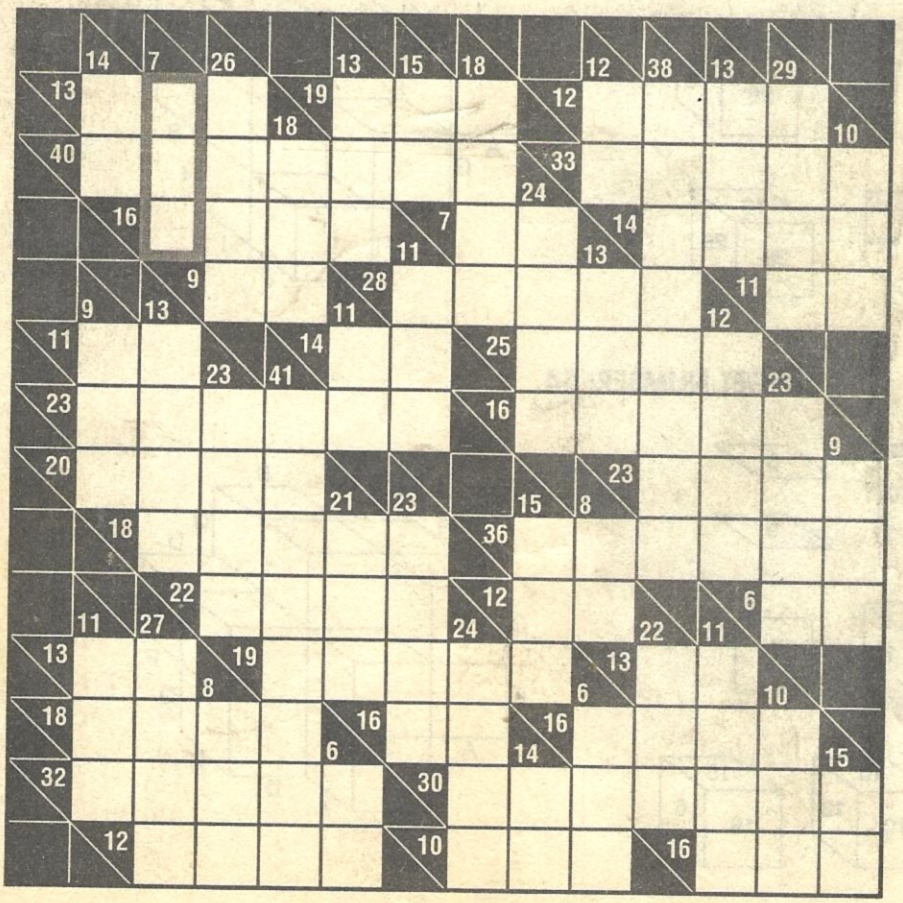
9.

We have outlined one area in each diagram on these two pages. If you need help starting a puzzle, the digit combination to go into that area is listed on page 66.

Solutions are on page 59.

Diana Thomas
"I Like Linda"
a Doubting Thomas
P & D Records

~~34~~ ~~36~~ 38
~~35~~ ~~39~~



10.

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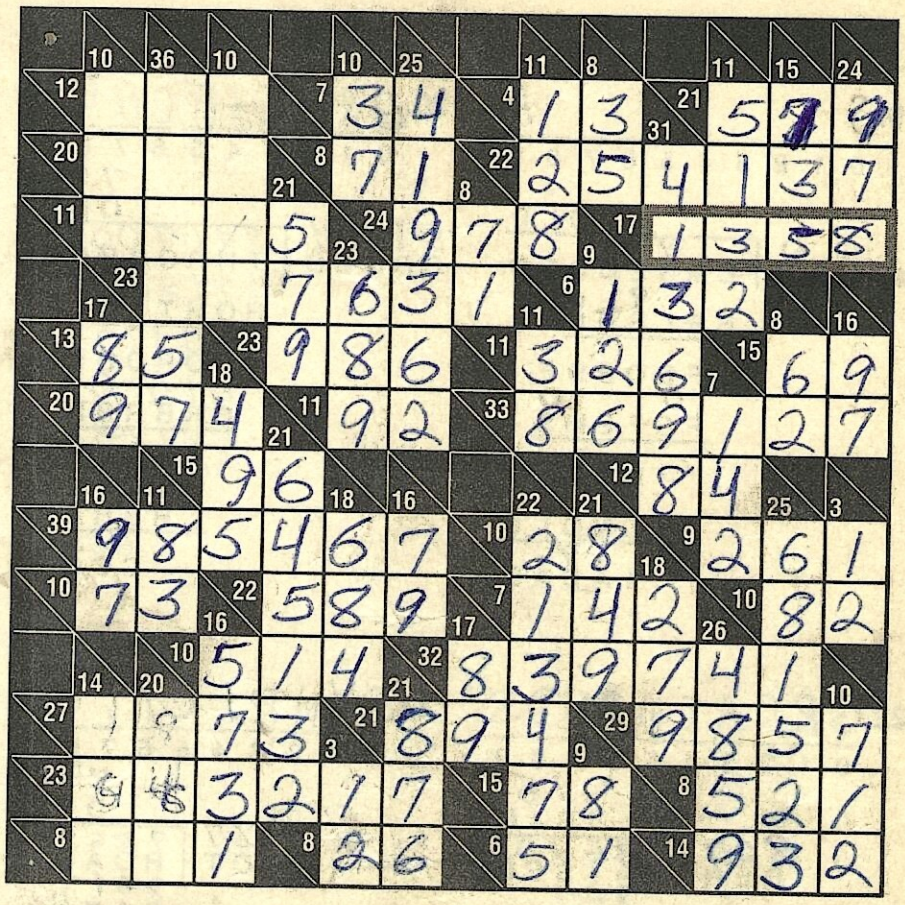
CROSS SUMS

Solutions are on page 59.

11.



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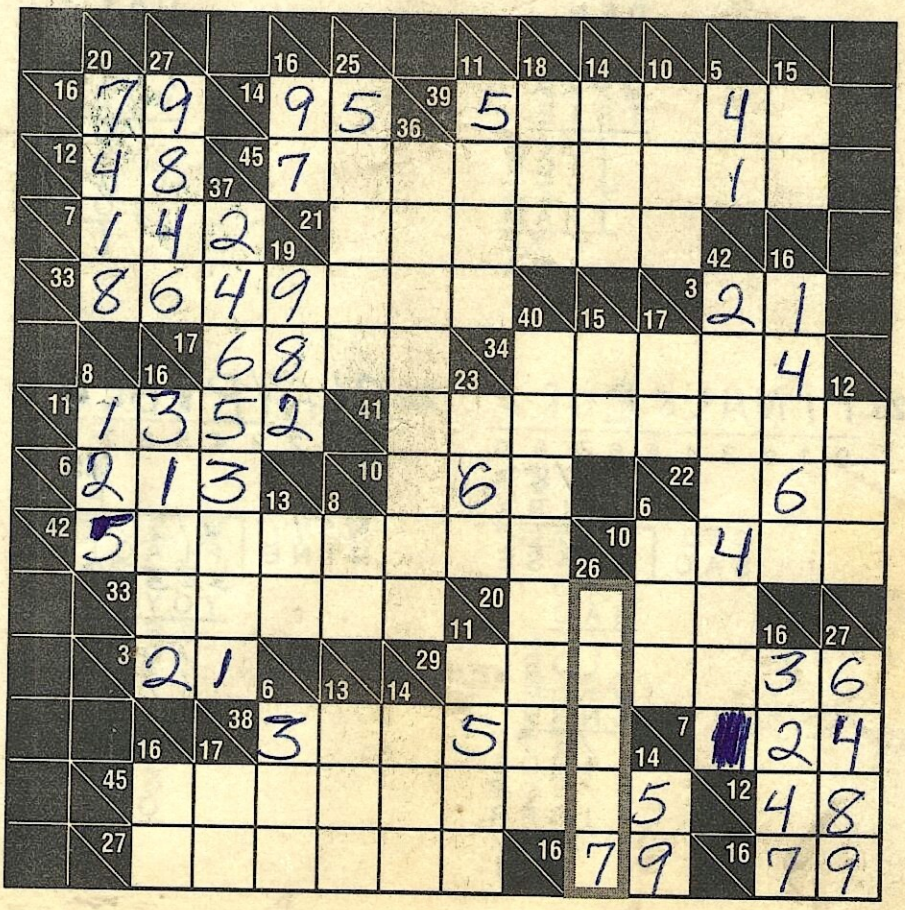
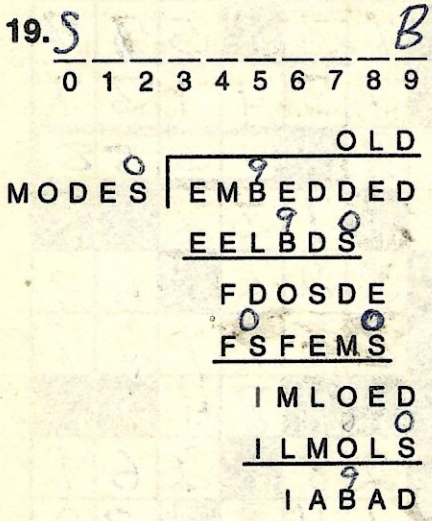


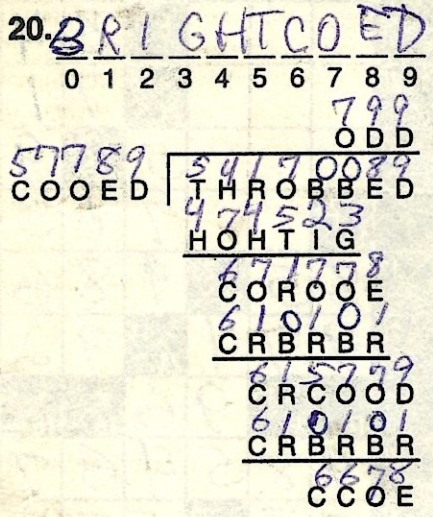
WORD ARITHMETIC

Answers are on page 66.

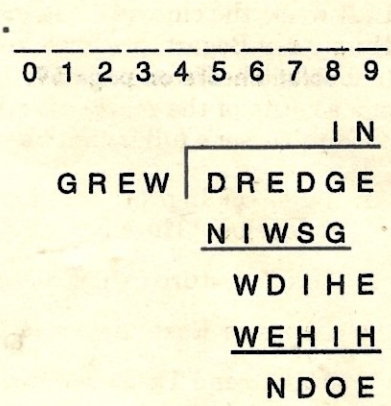
19.



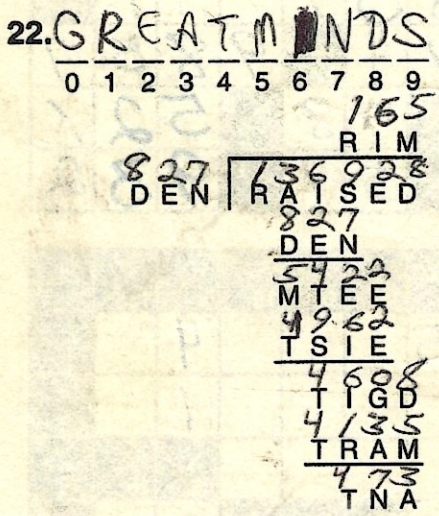
20.



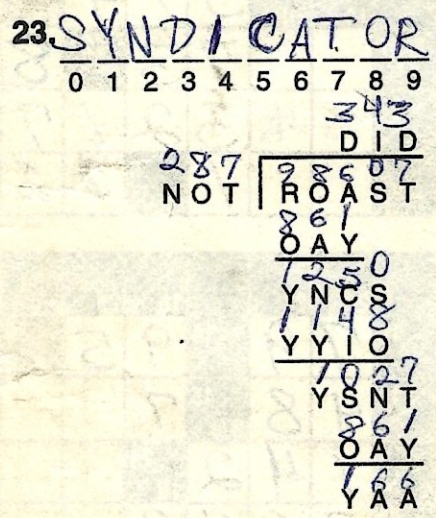
21.



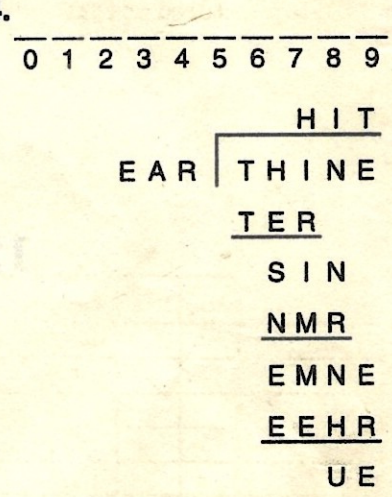
22.



23.



24.



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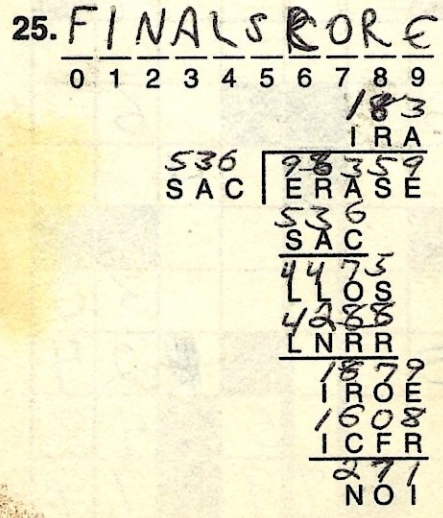

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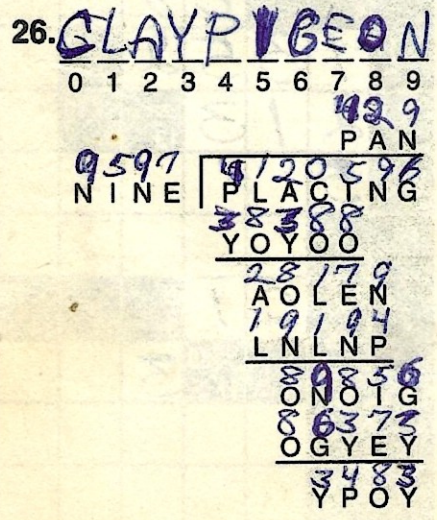
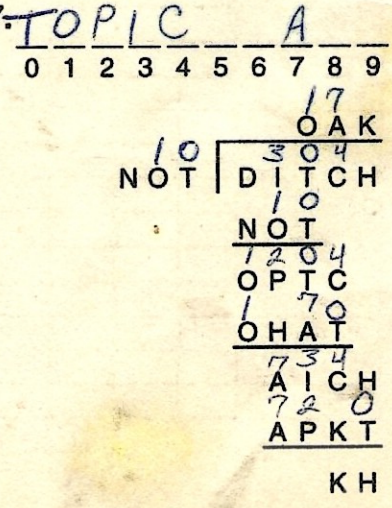


27.



LOGIC PROBLEM

8. HERE'S LOOKING AT FILMS, KID

by Kevyn Dymond

Last week, the cinema department of the Logicville Arts College presented its annual guest lecture series on Humphrey Bogart. Each weekday, a different local theater (including the Metro) screened a different movie (one was "The Treasure of the Sierra Madre"), with a different professor (including Jerry) talking about various aspects of the movie after the audience viewing. From the information that follows, can you determine each professor's full name, film, theater, and lecture day?

1. Professor Ingram (who isn't Kerri) lectured the day before the Bijou Theater screening, which was the day before "The Big Sleep" was shown.
2. Mary's lecture (which wasn't on Thursday) did not take place at the Nu-Art Theater.
3. Professor Eastman lectured on "To Have and Have Not."
4. The Strand Theater feature (which wasn't "The Maltese Falcon") was screened at least two days before Harry's lecture.
5. Professor Driscoll's lecture and the Rialto screening were scheduled for Monday and Friday, in some order.
6. "Casablanca" was screened on the day after Larry's lecture, which happened the day after Professor Fenster's lecture.
7. Mary lectured at least two days after Professor Ashburg.

Solution is on page 62.

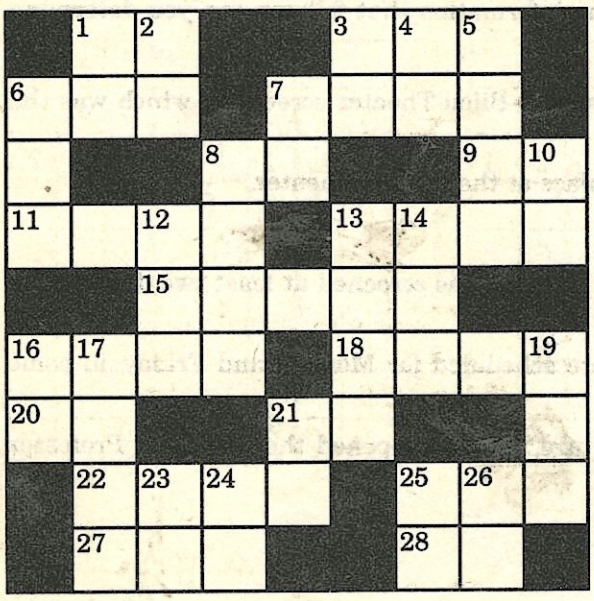
See page 7 for directions on how to use the solving chart.

	Ash.	Dris.	East.	Fen.	Ing.	"Big"	"Casa."	"Malt."	"To"	"Treas."	Bijou	Metro	Nu.	Rialto	Strand	M	Tu	W	Th	F
Harry																				
Jerry																				
Kerri																				
Larry																				
Mary																				
Monday																				
Tuesday																				
Wednesday																				
Thursday																				
Friday																				
Bijou																				
Metro																				
Nu-Art																				
Rialto																				
Strand																				
"Big Sleep"																				
"Casablanca"																				
"Maltese"																				
"To Have"																				
"Treasure"																				

FIGURE LOGICS 5 & 6

by Linda Thistle

Directions for solving are on page 11. If you need help starting these puzzles, helps are given on page 66.

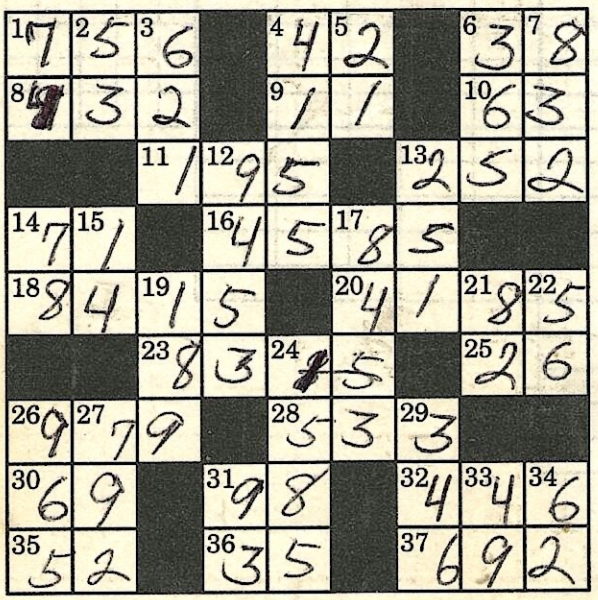


ACROSS

1. 8-Across minus 16-Down
3. Two hundred more than 12-Down
6. Two more than 3-Across
7. Seven more than 22-Across
8. 21-Across plus 1-Down
9. 1-Across plus 23-Down
11. Three hundred less than 17-Down
13. Two less than 5-Down
15. Consecutive digits, rearranged
16. Four times 6-Down
18. Ten less than 13-Down
20. Digits of 21-Down, reversed
21. Fifty less than 10-Down
22. Digits of 16-Across, rearranged
25. Sixty more than 19-Down
27. 8-Across times 16-Down
28. One more than 4-Down

DOWN

1. Eighty less than 25-Down
2. Thirty less than 28-Across
3. Fifty more than 23-Down
4. 20-Across plus 3-Down
5. One-half of 8-Down
6. Eighty less than 6-Across
7. Six less than 2-Down
8. Six less than 11-Across
10. 7-Down plus 16-Down
12. Digits of 27-Across, rearranged
13. Two hundred less than 13-Across
14. Two less than 25-Across
16. Three more than 21-Across
17. 7-Across plus 21-Across
19. Eight hundred less than 18-Across
21. One more than 23-Down
23. One-half of 16-Down
24. Two times 21-Down
25. 8-Across plus 3-Down
26. Three times 20-Across



ACROSS

1. Three times 13-Down
4. 2-Down minus 9-Across
6. Three more than 36-Across
8. 32-Across minus 15-Down
9. 33-Down minus 6-Across
10. Three times 5-Down
11. Six more than 19-Down
13. Four times 2-Down
14. Three less than 1-Down
16. Three thousand more than 24-Down
18. One hundred more than 23-Across
20. Four hundred less than 16-Across
23. Two times 4-Down
25. One-half of 35-Across
26. 28-Across plus 32-Across
28. 13-Across plus 3-Down
30. Six more than 10-Across
31. Two times 33-Down
32. One hundred more than 29-Down
35. Thirty less than 21-Down
36. 5-Down plus 15-Down
37. One hundred less than 27-Down

DOWN

1. Sixty more than 15-Down
2. One more than 35-Across
3. Forty less than 6-Down
4. Thirty less than 20-Across
5. Five less than 25-Across
6. 8-Across minus 14-Across
7. Four hundred more than 8-Across
12. One thousand more than 17-Down
13. 11-Across plus 22-Down
14. Twenty less than 31-Across
15. One-third of 4-Across
17. Seven less than 18-Across
19. Three times 10-Across
21. Four more than 14-Down
22. Six less than 34-Down
24. 1-Across plus 7-Down
26. 1-Across plus 13-Across
27. Forty less than 7-Down
29. One-half of 37-Across
31. 9-Across plus 21-Down
33. Twenty less than 30-Across
34. Twenty more than 4-Across

Solutions are on page 60

NUMBER PLACE

In these puzzles, your job is to place a number into each box so that each row across, each column down, and each small 9-box square within the larger square (there are 9 of these) will contain each number 1 through 9. Remember that no number may appear more than once in any row, column, or 9-box square; this will help you solve the puzzle.

Solutions are on page 60.

1.

	1			3	8	7		
7		5	6				4	
		8			7		2	3
9		1		6				7
	8		5		1	6		
5				4			3	1
	4		1		5			6
	9			2		5	8	
6		7	3			2		

2.

	1		5		3		4	
6	3			8		7		
		8			4		2	3
1		2	9			5		
		5		1	7		6	
	6		4			9		7
5			7	6			3	
	4				9	8		1
7		9		4				6

3.

1		5			6		8	
	9		2				6	
		6	1	4		5		7
	4	9			3	2		
7			8	9				4
6				2		9	7	
	5	1			9		2	
	2		7		4			3
3				1		8		9

4.

1	4	7	2	5	9	3	6	8
6	3	5	8	4	1	7	2	9
8	2	9	7	3	6	4	1	5
4	7	1	9	2	5	8	3	6
2	8	3	6	1	7	5	9	4
5	9	6	4	8	3	2	7	1
3	1	2	5	9	4	6	8	7
7	5	8	1	6	2	9	4	3
9	6	4	3	7	8	1	5	2

5.

1		4			7	5		
	6		3		1		2	
		7		8			3	6
6	8			2		9		
		5		4		7	1	
4			9		5			3
	1	9	6					8
	2			9		3	4	
8			5		2			1

6.

	2				8	5		9
	8		5	1		7		
3		7		6			4	
		1	4			8		5
	3			9	2		7	
4		2			1			6
5			7	2			8	
	4	9			3	6		
7			9				1	3

7.

1			6					2
		5		8		3		
	7				9		4	
2					4	6		
		6		9			7	
	8				3			5
		1			8			3
	3			7		4		
8			2				1	

8.

	4				6			7
3				2			9	
		1	5			2		
7				9			6	
	3				8			5
		9			4	7		
	2		3			4		1
1				4	9			2
		5	7				8	

9.

		5		6	8		4	
4		3	1			6		
	8				7	2		5
5				1		9		3
		7	9	4			8	
3	9				6			7
		4	8			1	3	
	6		3	7			5	
8	3				4			9

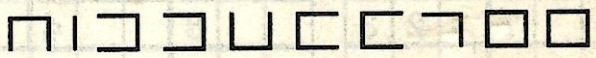
CRAZY CALCULATOR

As many of us have witnessed, calculators, computers, digital clocks, VCRs, and other electronic devices can go awry in the most unusual of ways. For example, math whiz Cal Q. Leighton was recently distressed to find his own calculator experiencing a "technical difficulty" — for some reason, it displayed only the upper portions of all the numbers on its screen! To illustrate:

NORMAL DISPLAY

0 1 2 3 4 5 6 7 8 9

CRAZY CALCULATOR



You won't be surprised to learn that Cal eventually discarded his faulty calculator and bought a replacement, but before he did, he used the machine to create a quartet of puzzles for his math-loving buddies. After completing four simple arithmetic problems, he wrote them down on another piece of paper in the crazy calculator's "upper-part-only" style of display. Yet you can see for yourself; the puzzles are reproduced below. By working together and consulting the chart above, Cal's pals were able to reconstruct all of the original problems. Can you do the same?

Solutions are on page 65.

ADDITION

```
  675
 9084
+7352
-----
17111
```

SUBTRACTION

```
 8039
-7424
-----
  615
```

MULTIPLICATION

```
  3928
    54
X
-----
 15712
19640
-----
212112
```

DIVISION

```
      2
   -------
845 | 1737
    1690
    ----
      47
```

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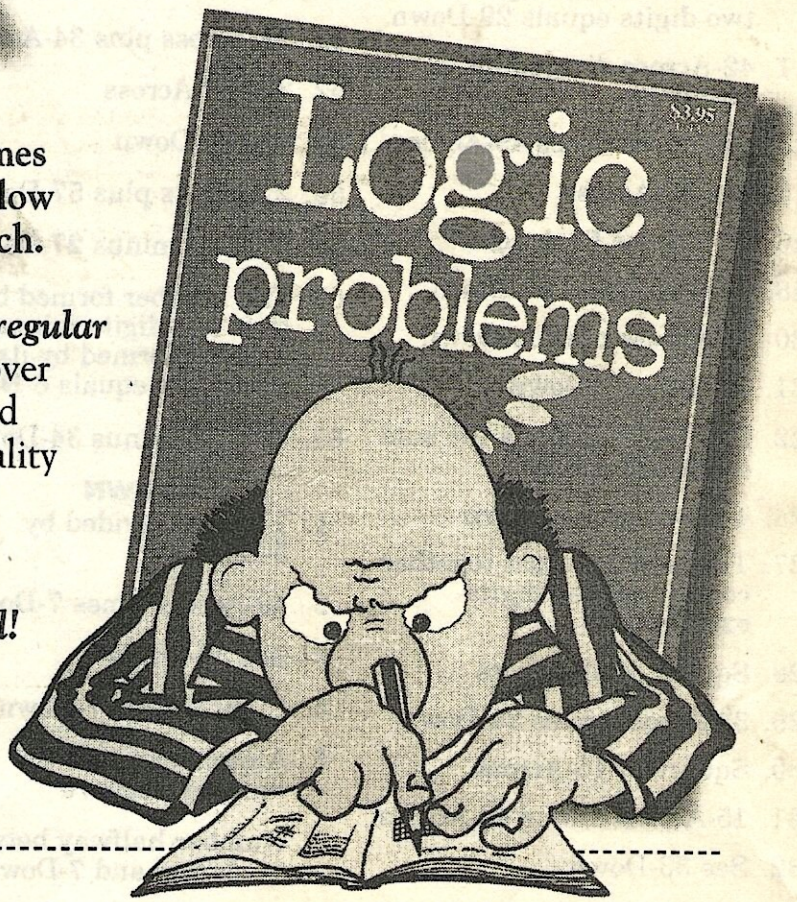

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FIGURE LOGIC 7

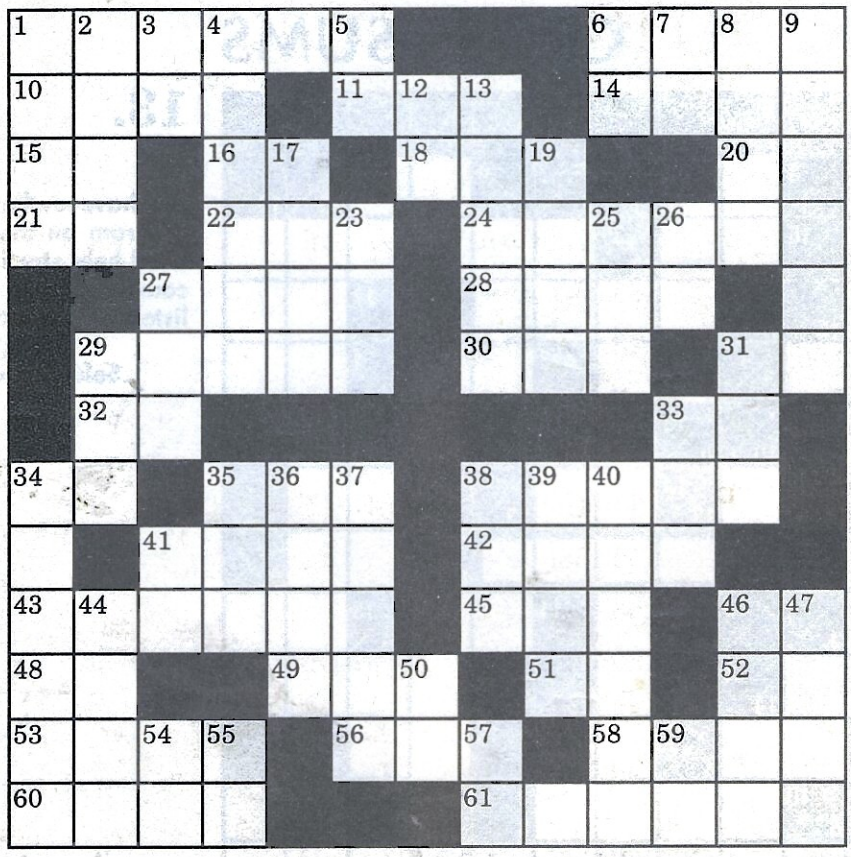
Directions for solving are on page 11. If you need help starting this puzzle, a help is given on page 66.

ACROSS

1. Consecutive digits in ascending order
6. The number formed by its last two digits is three times the number formed by its first two digits
10. The number formed by its first two digits plus the number formed by its last two digits equals 29-Down
11. 42-Across divided by 48-Across
14. 46-Across times 49-Across
15. See 30-Across
16. Two times 51-Across
18. 6-Down times 57-Down
20. 46-Across plus 54-Down
21. Six times 7-Down
22. One of its digits is the sum of the other digits
24. 4-Down plus 9-Down
27. This and 1-Across together contain all ten digits exactly once
28. Square of 52-Across
29. 33-Across times 35-Down
30. Square of 15-Across
31. 15-Across minus 48-Across
32. See 33-Down
33. 41-Across divided by 31-Down
34. See 31-Down
35. One of its digits is the sum of the other digits
38. 31-Across times 35-Down
41. Consecutive digits in ascending order
42. The number formed by its last two digits minus the number formed by its first two digits equals 55-Down
43. 35-Across times 44-Down
45. The number formed by its first two digits minus the number formed by its last digit equals 54-Down
46. See 14-Across
48. See 41-Down
49. Number that reads the same forwards as backwards
51. 15-Across plus 34-Across
52. See 28-Across
53. See 25-Down
56. 22-Across plus 57-Down
58. 2-Down minus 27-Down
60. The number formed by its first two digits minus the number formed by its last two digits equals 6-Down
61. 4-Down minus 34-Down

DOWN

1. 1-Across divided by 5-Down
2. 49-Across times 7-Down
3. See 36-Down
4. Eight times 37-Down
5. A number times the number's square
6. Number halfway between 31-Across and 7-Down
7. 29-Down divided by 34-Across
8. Five times 35-Across
9. 4-Down minus 1-Across
12. 21-Across minus 15-Across
13. The number formed by its first three digits minus the number formed by its last two digits equals 3-Down
17. Digits of 53-Across, rearranged
19. Square of 46-Across
23. 27-Across divided by 3-Down
25. 53-Across divided by the number formed by 53-Across's last two digits
26. 16-Across plus 34-Across
27. 20-Across times 50-Down
29. Three times 5-Down
31. Square of 34-Across
33. 32-Across plus 49-Across
34. 22-Across times 38-Down
35. 1-Across divided by 29-Down
36. Square of 3-Down
37. The number formed by 1-Across's first three digits times the number formed by 1-Across's last three digits
38. 29-Down minus 41-Down
39. 5-Down times 7-Down
40. Square of 22-Across
41. The sum of its digits is 48-Across
44. 1-Down minus 22-Across
46. The number formed by its first two digits plus the number formed by its last two digits equals 32-Across
47. 50-Down times the sum of 33-Down and 59-Down
50. 29-Down minus 23-Down
54. 34-Across plus 55-Down
55. One-half of 46-Across
57. This times the sum of its digits equals 25-Down
59. Number halfway between 31-Across and 34-Across



Solution is on page 60

FIGURE IT OUT!

Here are four little math problems for you. How many of them can you figure out? **Answers are on page 65.**

1. Which is the better bargain: a jacket which was first marked down 10% from its original price and which may now be purchased at an additional 40% off that new price, or the same jacket marked down 50% from its original price?

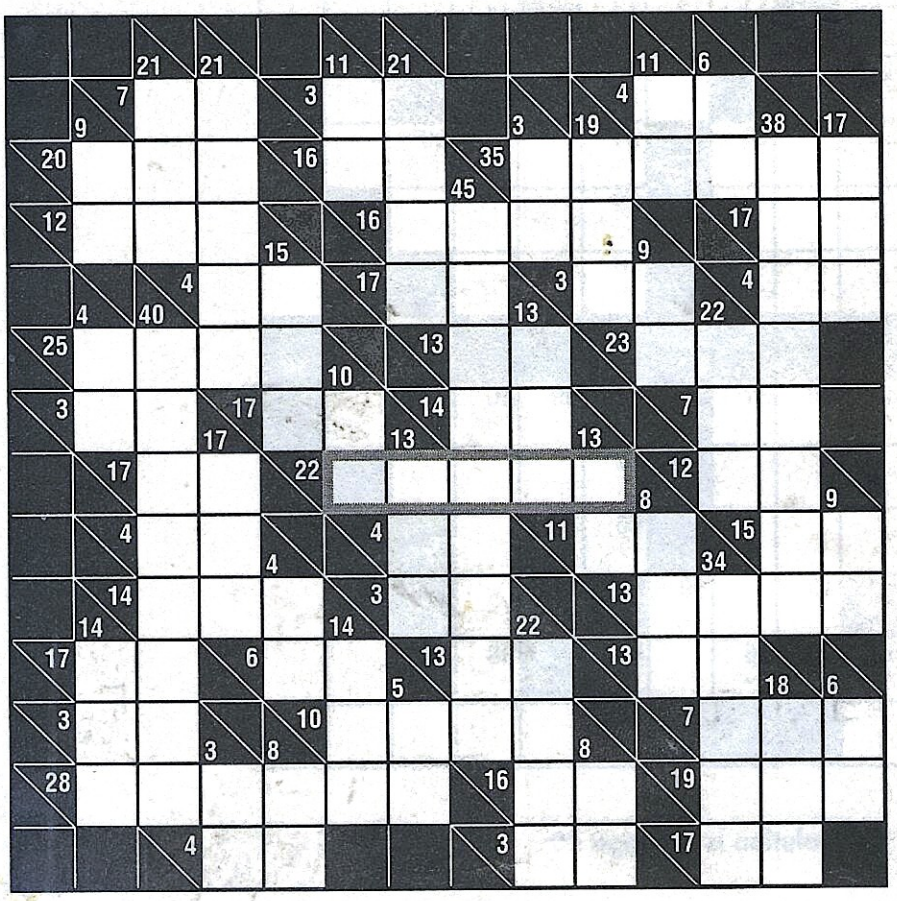
2. A man has at least two pairs of black socks, two pairs of navy socks, and two pairs of tan socks in a drawer. If he removes one sock at a time from the drawer without looking at its color, how many must he remove to be certain of having matching socks for both himself and his teenage son?

3. If A, B, and C stand for different digits, and BA + AC = BCA, what digits do A, B, and C represent?

4. A garden contains daffodils, hyacinths, and tulips, and the total number of these flowers is 150. There are three times as many daffodils as hyacinths and twice as many tulips as hyacinths. How many of each flower does the garden contain?

CROSS SUMS

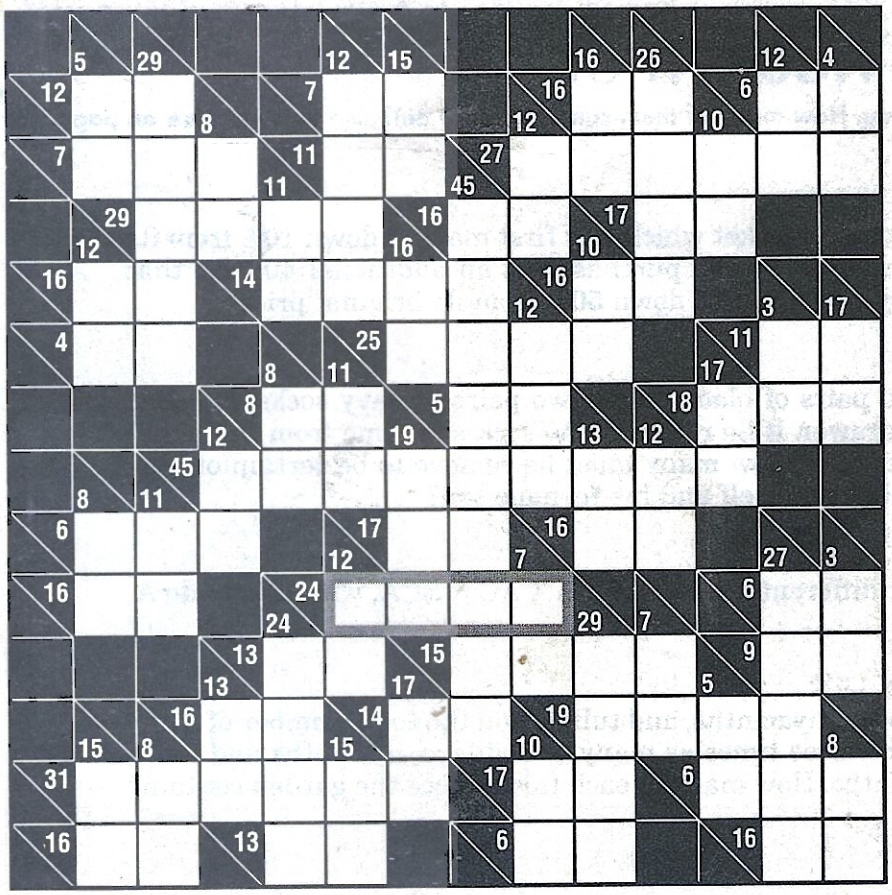
13.



We have outlined one area in each diagram on these two pages. If you need help starting a puzzle, the digit combination to go into that area is listed on page 66.

Solutions are on page 59.

14.

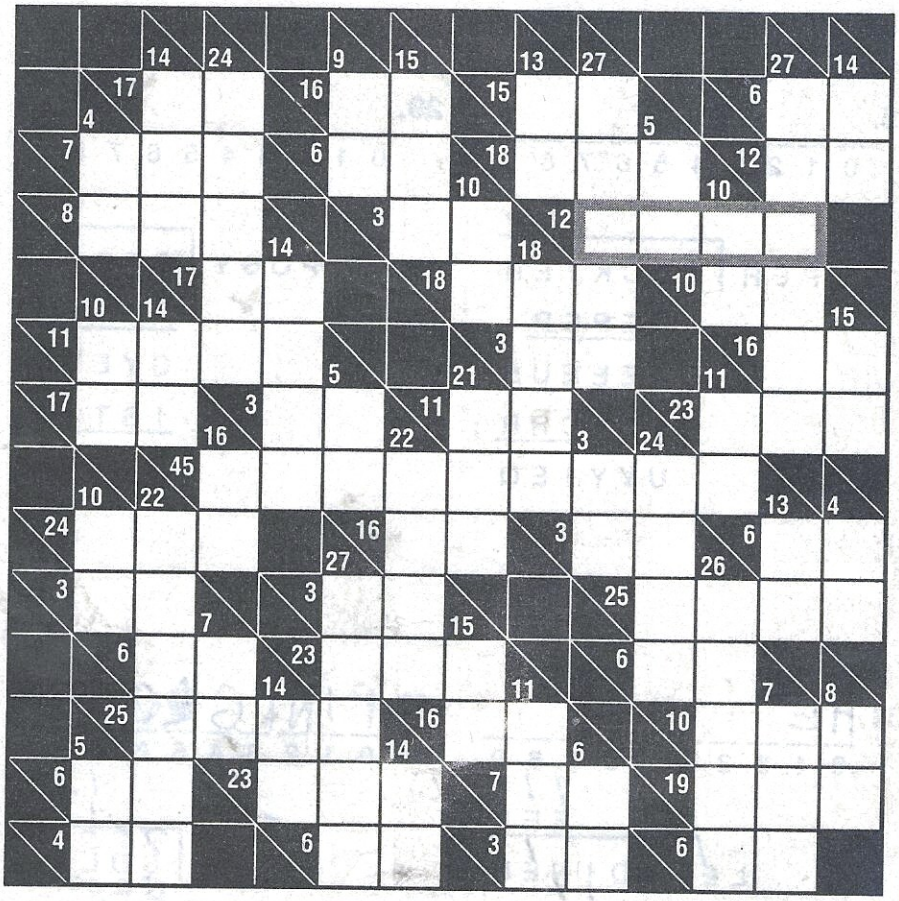


Add more to your total puzzle enjoyment with ***Collector's Series Cross Sums.*** *You'll find over 100 of your favorites. To order, see page 23.*

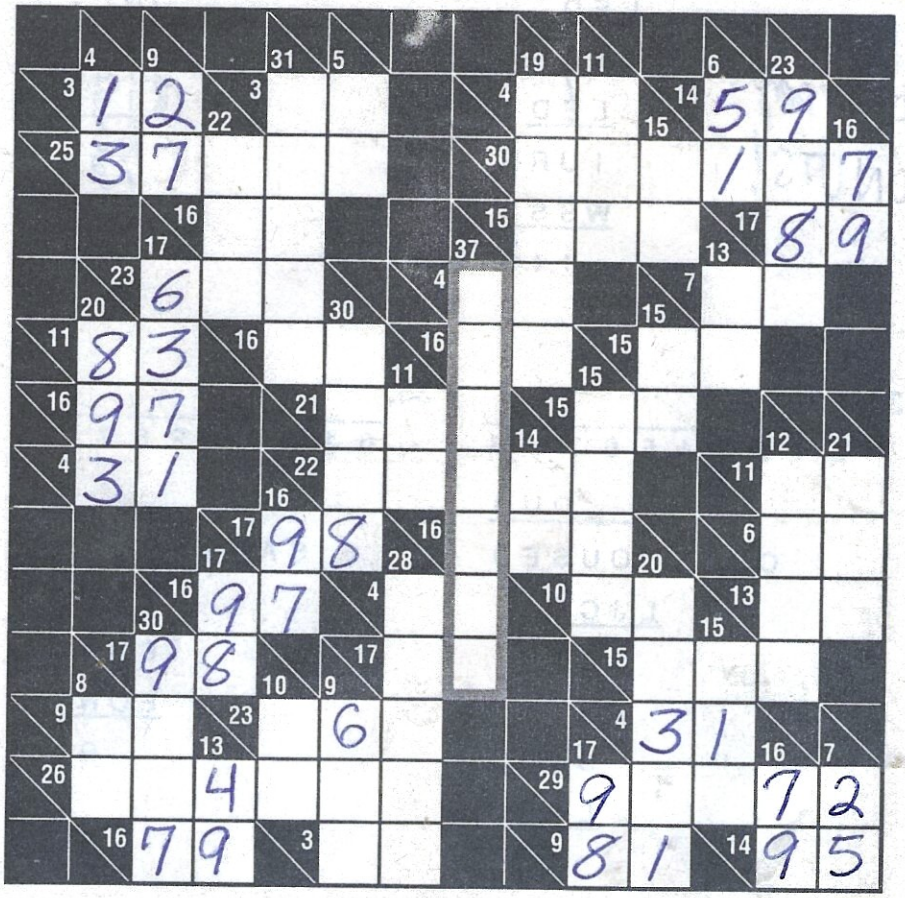
CROSS SUMS

15.

Solutions are on page 59.



16.



Liar! Anonymous? Shannon Dunnigan 'Deep Purple' Oh, Those Orangs! R & B Records

WORD ARITHMETIC

Answers are on page 66.

28.

0 1 2 3 4 5 6 7 8 9

```
          UP
KEEPER | LUCKIER
         KEEPER
         CKEEEUR
         CIEPCRR
         UYYIEQ
```

29.

0 1 2 3 4 5 6 7 8 9

```
          YE
POSY | STORE
       POSY
       CYEYE
       ISTIE
       YTTL
```

30.

0 1 2 3 4 5 6 7 8 9

```
          OVA
RED | TROUT
      BUG
      EOU
      EVD
      VAT
      ATG
      VT
```

31. HE

0 1 2 3 4 5 6 7 8 9

```
          1 1
          EEL
LED | DINER
      LED
      ESSE
      LED
      IURR
      WSSR
      IIH
```

Don't say DONUTS!

32. PINKGLOVES

0 1 2 3 4 5 6 7 8 9

```
          153
          ILK
628 | 96578
ONE | SOLVE
      628
      ONE
      33377
      KKVV
      3140
      KIGP
      23782
      NKVE
      18841
      IEEG
      4994
      GSG
```

33.

0 1 2 3 4 5 6 7 8 9

```
          LEI
TOE | LIMITS
      IOIS
      SIOT
      SFSP
      RMS
      TOE
      ITE
```

34.

0 1 2 3 4 5 6 7 8 9

```
          DUD
CUD | DOUSED
      LJCU
      SBTE
      SSJC
      DDTD
      LJCU
      JOC
```

35.

0 1 2 3 4 5 6 7 8 9

```
          IT
SANG | ROAST
       TRAS
       ERDDT
       EONTO
       GSR
```

36.

0 1 2 3 4 5 6 7 8 9

```
          AS
LOBE | SHAKE
       DKKO
       LLCOE
       LBDHK
       KAO
```

LOGIC PROBLEM

9. WE ALL SCREAM FOR ICE CREAM

by Janet Fleming

After school, Bob and four of his pals stopped by the malt shop, where each purchased a tasty sundae. Each treat contained a different flavor of ice cream (butter pecan, chocolate, fudge ripple, strawberry, or vanilla), and each had a different syrup (butterscotch, caramel, hot fudge, marshmallow, or pineapple). The available toppings were nuts and whipped cream, although not everyone chose either or both of these toppings. From the clues below, can you determine each friend's full name (one surname is Ishikawa), ice cream, syrup, and toppings, if any?

1. Jones (who didn't order nuts) did not have the strawberry ice cream.
2. Gomez (who didn't order strawberry ice cream) and Alex were the only two who had whipped cream on their sundaes.
3. The only three sundaes topped with nuts were the one with pineapple syrup (which didn't have whipped cream), the one with vanilla ice cream, and Dana's.
4. Neither Ellen nor Jones had butter pecan ice cream.
5. The sundae made with marshmallow syrup (which wasn't Gomez's) was topped with both nuts and whipped cream.
6. The friend who ordered strawberry ice cream (who isn't Ellen or Charlie) isn't Hirsch.
7. Jones, who did not order chocolate ice cream, did not have the sundae topped with butterscotch syrup.
8. Kadeem, who is allergic to strawberries, did not have nuts on his or her sundae.
9. Neither Jones nor Gomez ordered hot fudge.

Solution is on page 63.

See page 7 for directions on how to use the solving chart. In this chart, however, you may have zero, one, or more "yeses" or zero, one, or more "noes" in the rows and columns for nuts and whipped cream (see introduction).

	Gomez	Hirsch	Ishikawa	Jones	Kadeem	b. pecan	choc.	fudge r.	straw.	vanilla	butter.	car.	hot f.	marsh.	pine.	nuts	whipped
Alex																	
Bob																	
Charlie																	
Dana																	
Ellen																	
nuts																	
whipped																	
butter-scotch																	
caramel																	
hot fudge																	
marsh-mallow																	
pineapple																	
butter pecan																	
chocolate																	
fudge ripple																	
strawberry																	
vanilla																	

LOGIC PROBLEM

10. HERE COME THE BRIDESMAIDS

by Evelyn Rosenthal

Fara and the six other bridesmaids in Lee's wedding all arrived at the same time for their dress fittings at the bridal shop. As each woman's different height was recorded for the alterations, she tried to guess what flowers Lee would have them wear (one said roses); no two thought of the same flower. From the clues below, can you determine each woman's full name, height (5'1", 5'2", 5'3", 5'4", 5'5", 5'6", or 5'7") and her guess?

1. Diane is shorter than the bridesmaid who thought they would wear daisies.
2. Moira is one inch shorter than the one who suggested gardenias, who is shorter than Ms. Paulson.
3. Lorna, who isn't Ms. Emerson, didn't say that they would wear poppies.
4. Ms. Rowland is as many inches taller than Ms. Corson as she is shorter than Ms. Henley.
5. Moira didn't guess daffodils.
6. Neither Claire nor Diane is Ms. Ludwig.
7. Kristen is one inch taller than the one who thought they would wear poppies and one inch shorter than Hannah (who isn't Ms. Henley).
8. Ms. Ludwig did not suggest gardenias.
9. Ms. Emerson is four inches shorter than Ms. Paulson.
10. The woman who guessed daffodils is one inch shorter than Lorna, who is shorter than Ms. Ludwig.
11. Ms. Adsitt is one inch shorter than Ms. Rowland, who is one inch shorter than Ms. Ludwig.
12. The bridesmaid who thought they were going to wear carnations is shorter than the one who guessed morning glories (who isn't Ms. Paulson).

Solution is on page 63.

See page 7 for directions on how to use the solving chart.

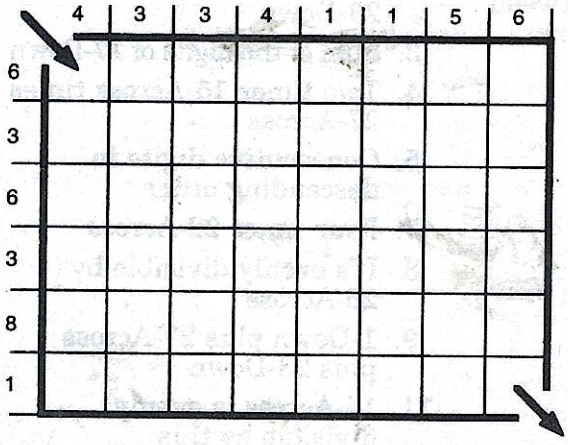
	Ads.	Cor.	Em.	Hen.	Lud.	Paul.	Row.	5'1"	5'2"	5'3"	5'4"	5'5"	5'6"	5'7"	car.	daf.	dais.	gar.	m.g.	pop.	roses
Claire																					
Diane																					
Fara																					
Hannah																					
Kristen																					
Lorna																					
Moira																					
carnations																					
daffodils																					
daisies																					
gardenias																					
morning																					
poppies																					
roses																					
5'1"																					
5'2"																					
5'3"																					
5'4"																					
5'5"																					
5'6"																					
5'7"																					

MATH MAZES

You'll have to use some deductive reasoning to make your way from start to finish in these mazes. Each maze is divided into squares; the number at the beginning of each row and column tells you exactly how many of those squares you will have to cross through in order to correctly reach the finish. For example, in Math Maze 1, the number 4 is at the beginning of the first column down; this means you will have to cross through exactly four of the squares in that column. You need not cross through all of them at once; you may leave a row or column and return to it later. For example, you might cross through the first two squares in the first column, then turn right. You would then have to return to the first column later so that you use exactly four squares before you finish the maze. No diagonal moves are allowed. Solving hint: To begin, blacken any square that you determine will not be used, and place a dot in any square that you know must be used.

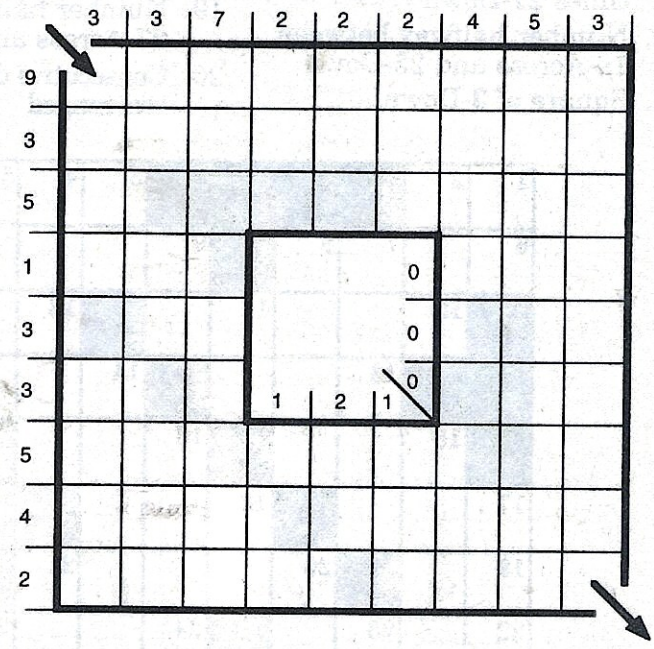
Solutions are on page 61.

1.



Joe & Cathy
"Gilligan's Island"

2.



3.

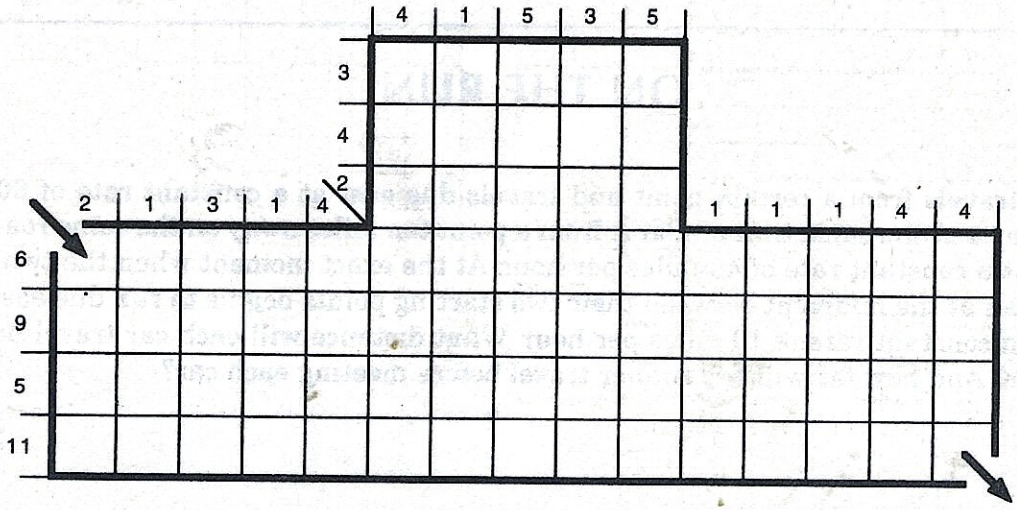
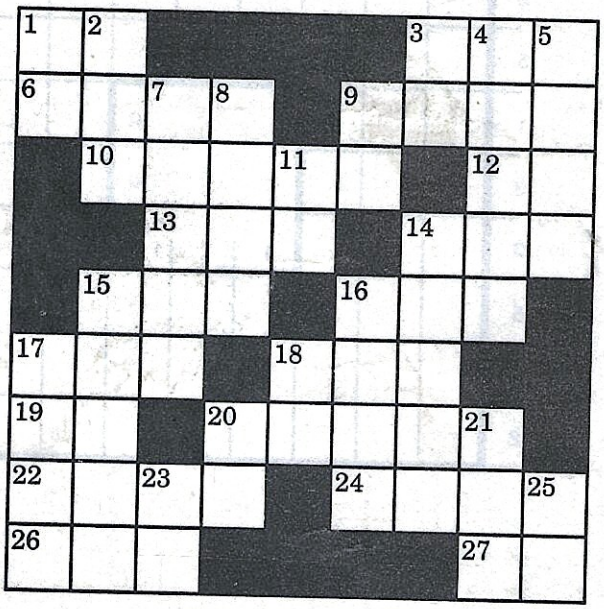


FIGURE LOGIC 8

Directions for solving are on page 11. If you need help starting this puzzle, a help is given on page 66.

ACROSS

1. Sum of the digits of 5-Down
3. Five times 27-Across
6. 12-Across times the sum of 1-Across and 19-Across
9. 3-Down times the difference between 15-Across and 19-Across
10. One-third of 26-Across times 21-Down
12. Number halfway between 19-Across and 25-Down
13. Square of 3-Down
14. 17-Down divided by 3-Down
15. Digits of 26-Across, rearranged
16. The number formed by its first two digits is two times its last digit
17. 5-Down divided by 1-Across
18. 14-Across plus one-half of 11-Down
19. Number halfway between 27-Across and 25-Down
20. Consecutive digits, rearranged
22. 13-Across times 3-Down
24. 6-Across plus 27-Across minus 17-Across
26. All of its digits are even
27. One less than 11-Down



Solution is on page 60

DOWN

1. One less than 1-Across
2. One-half of 3-Down times the sum of 1-Down and 23-Down
3. Sum of the digits of 17-Down
4. Two times 15-Across times 27-Across
5. Consecutive digits in descending order
7. Four times 22-Across
8. It's evenly divisible by 26-Across
9. 1-Down plus 27-Across plus 23-Down
11. 14-Across is evenly divisible by this
14. 17-Across times 23-Down
15. 1-Across times 17-Down
16. 19-Across times 11-Down
17. Consecutive digits in ascending order
18. 19-Across minus 3-Down
20. 3-Down plus 11-Down
21. 1-Across times 3-Down
23. 1-Across plus 3-Down
25. 16-Across divided by one of 16-Across's digits

ON THE RUN

Car A travels from a certain point and travels due east at a constant rate of 60 miles per hour. Car B starts at the same time as Car A from a point ten miles away on the same road and travels due west at a constant rate of 40 miles per hour. At the exact moment when the two cars begin traveling, a man at the midpoint between their two starting points begins to run due east along the same road at a constant rate of 10 miles per hour. What distance will each car travel before meeting the runner? And how far will the runner travel before meeting each car?

Answer is on page 65

LOGIC PROBLEM

11. GOOD BUY!

by David Champlin

On the way back to his office after a business lunch with four of his friends, Joe asked to stop for a minute at the Under-a-Buck Store to pick up something he needed. All five went into the store, and since the merchandise was all jumbled, it took Joe a few minutes to find his item. When he brought it to the counter, he saw that his colleagues had made good use of the delay — each man had taken advantage of the shop's fabulous savings by selecting a different item. As the five men lined up to pay for their purchases, they noted that each one's item cost a different amount of money (95, 96, 97, 98, or 99 cents). From this information and the clues below, can you determine each man's full name, purchase, and expenditure, as well as the order in which the men stood in line?

1. The man who bought the mouthwash was immediately in front of Ivan, who was immediately in front of Mr. Lyons.
2. Herb's purchase cost one cent less than Mr. Olsen's, which cost one cent less than the packet of plastic combs.
3. The five men are Frank, Mr. Nash, the one who bought a felt-tip pen, the one who paid 97 cents, and the fifth one in line.
4. Mr. Kachi made his purchase immediately before the man who bought the shampoo, while George made his purchase before, but not immediately before, the man who paid 95 cents. Note: Four different men are mentioned in this clue.
5. Mr. Mendez made his purchase after, but not immediately after, the man buying the toothbrush (which cost at least two cents less than Mr. Mendez's item).
6. Mr. Kachi did not buy combs.

Solution is on page 63.

See page 7 for directions on how to use the solving chart.

	Kachi	Lyons	Mendez	Nash	Olsen	combs	mouth.	pen	shamp.	tooth.	95¢	96¢	97¢	98¢	99¢	1st	2nd	3rd	4th	5th
Frank																				
George																				
Herb																				
Ivan																				
Joe																				
1st																				
2nd																				
3rd																				
4th																				
5th																				
95¢																				
96¢																				
97¢																				
98¢																				
99¢																				
combs																				
mouth-wash																				
pen																				
shampoo																				
tooth-brush																				

NUMBER DECATHLON

Which of the eleven numbers listed will win the Number Decathlon? To find out, try your hand at the Number Decathlon! During each of the ten events below, one of the numbers will be eliminated. You are to bring only the numbers which remain after any event to the next event, and the events must be run in alphabetical order. At the end of the ten events, one number will remain; that number wins the Decathlon. This is a time test, so be sure to have a watch or clock handy to see how long it takes you to determine the winning letter. Our Distinguished Dell Decathlete finished all ten events and declared a winner in 5 minutes, 40 seconds. **Answer is on page 65.**

2 6 9 16 17 22 30 35 45 47 90

EVENT A: Eliminate the number that will logically fill the blank below.

3: 9, 6; 8, 4
7: 6, 5; 2, 2
__: 5, 2; 1, 4

EVENT B: A father is nine times older than his son. In five years, he will be five times as old. Eliminate the age of the father today.

EVENT C: Eliminate the number that will logically complete the series below.

2 5 11 23 ?

EVENT D: Eliminate the number that is not the correct answer to any of the arithmetic problems below.

896 – 880 = ____
20 + 15 = ____
13 + 17 = ____
72 ÷ 8 = ____
68 ÷ 4 = ____
3 x 2 = ____
2 x 11 = ____

EVENT E: Of the remaining seven numbers, eliminate the second-highest even number.

EVENT F: If A = 1, B = 2, etc., eliminate the number of the remaining six that does not equal the total of the values in any of the words below.

CAB GEE MOB ORB DAD

EVENT G: Of the remaining numbers, eliminate the one that cannot be evenly divided by either 3 or 5.

EVENT H: Of the remaining four numbers, eliminate the one which, when multiplied by 17, results in the highest number in the farthest right position.

EVENT I: Eliminate the number of the remaining three that is closest to 16.

EVENT J: First add together the number of days in August, September, and October, and then divide the total by the number of quarters that equal a dollar. Next, multiply this answer by the number of zeros in a million, and then subtract the number of items in two dozen. Lastly, add together the digits in your answer and eliminate that number.

The remaining number is the winner of the Decathlon. Does your winner match ours?

LOGIC PROBLEM

12. COME FLY WITH ME!

by Diane Baldwin

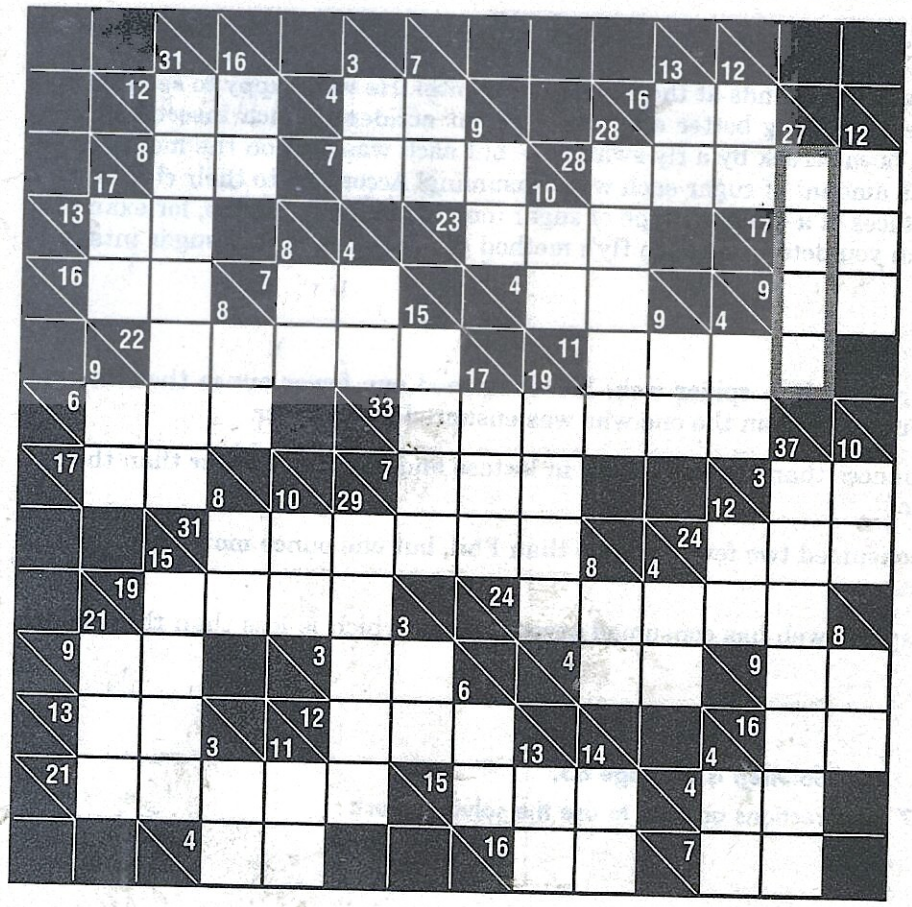
Dr. Hedison nodded his head as he made the rounds at the Housefly Hospital. He was happy to see that five of his patients (including Buzz) were all getting better after their recent accidents. Each insect had been injured in a different way — one had been struck by a fly swatter — but each was well on the mend, as Dr. Hedison could tell from the prodigious amount of sugar each was consuming! According to their charts, each has taken in a different number of ounces of a different type of sugar (one is imbibing glucose, for example). From the information that follows, can you determine each fly's method of injury, amount of sugar intake in ounces, and type of sugar?

1. Phil is not consuming fructose.
2. Flo (who wasn't injured while trapped in a spider web) has consumed one fewer ounce than the one imbibing sucrose and three fewer ounces than the one who was ensnared by flypaper.
3. Geena has consumed two more ounces than the one taking in lactose and one ounce fewer than the one who was injured by a bug zapper.
4. The one taking in maltose has consumed two fewer ounces than Phil, but one ounce more than the one that got sucked into a ceiling fan.
5. The fly who was caught in the spider web has consumed seven ounces, which is less than the amount Vincent has consumed.

Solution is on page 63.
See page 7 for directions on how to use the solving chart.

	fan	paper	swatter	web	zapper	no. of ounces					fructose	glucose	lactose	maltose	sucrose
Buzz															
Flo															
Geena															
Phil															
Vincent															
fructose															
glucose															
lactose															
maltose															
sucrose															
no. of ounces															

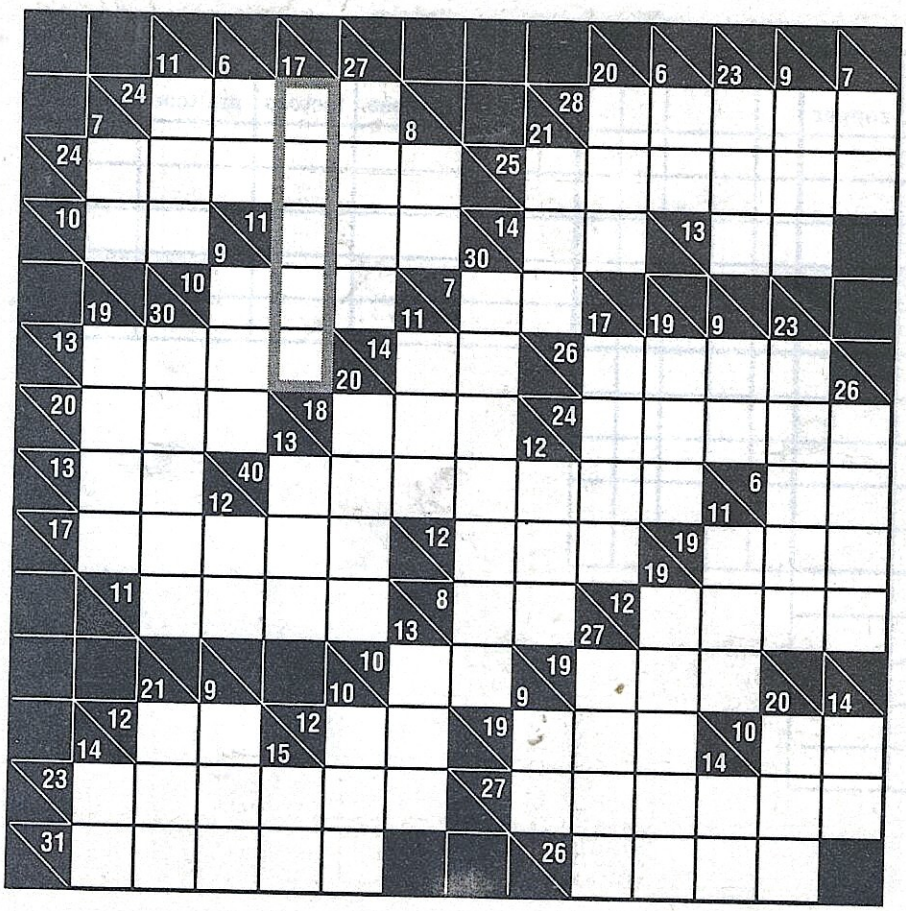
CROSS SUMS



17.

We have outlined one area in each diagram on these two pages. If you need help starting a puzzle, the digit combination to go into that area is listed on page 66.

Solutions are on page 59.



18.

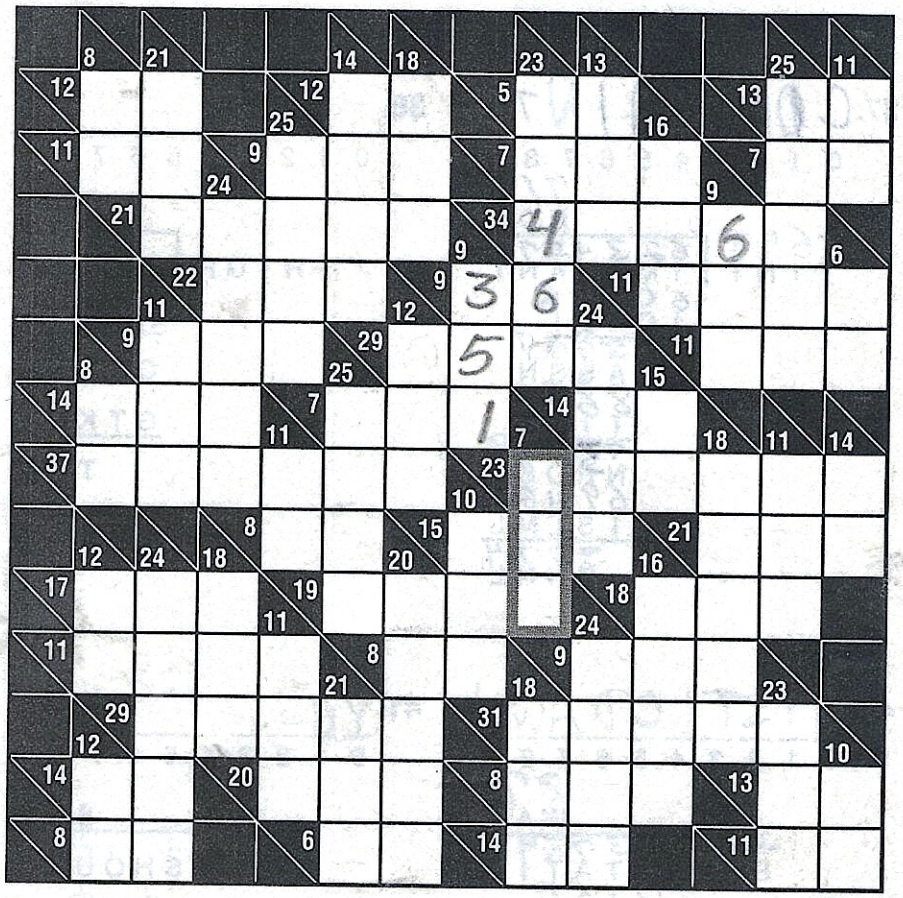
Joe Zino
"You Are My Sunshine"

Add more to your total puzzle enjoyment with ***Collector's Series Cross Sums.*** *You'll find over 100 of your favorites. To order, see page 23.*

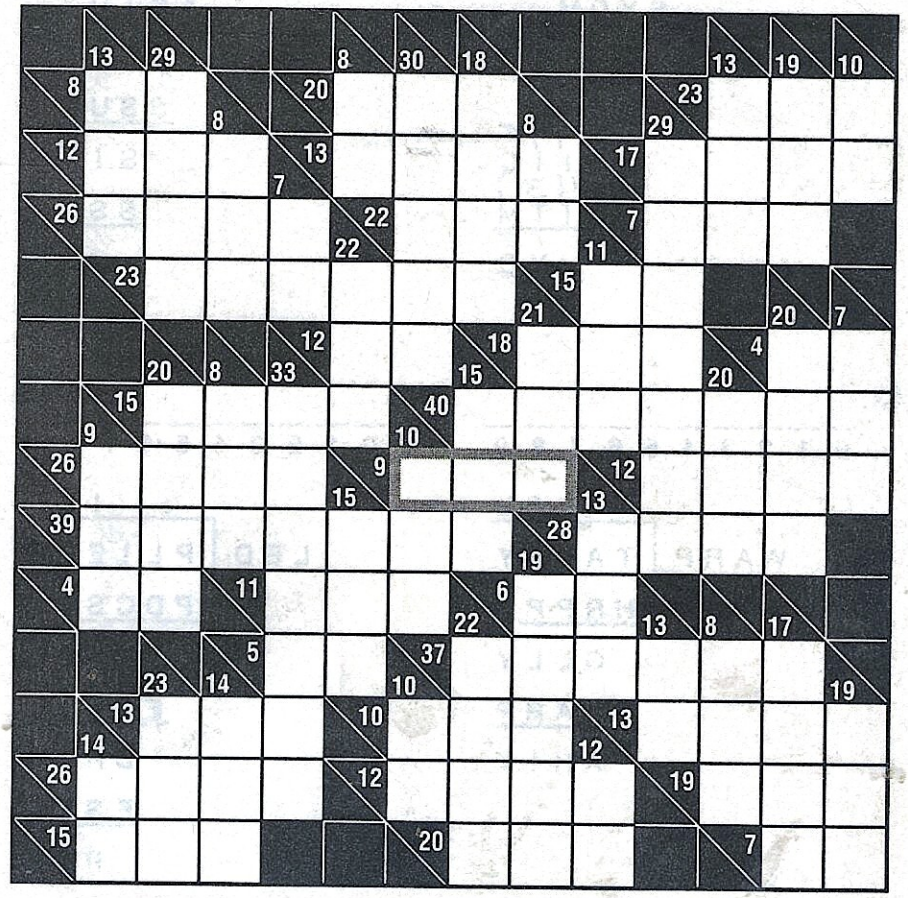
CROSS SUMS

19.

Solutions are on page 59.



20.



Ya!

WORD ARITHMETIC

Answers are on page 66.

37. COMPLAINTS

0 1 2 3 4 5 6 7 8 9

```
          718
          NOT
8678  623458
TINT | IMPLANT
     607466
     ICNLI
      15997
      OASSN
       8678
       TINT
      781198
      NPOST
      69424
      ISLML
       3774
        PNNL
```

38.

0 1 2 3 4 5 6 7 8 9

```
          IN
HIGH | FLAIR
       HIGH
       GFTNR
       GTKNT
          TKL
```

39. RODGSUBWAY

0 1 2 3 4 5 6 7 8 9

```
          1210
          ODOR
 766  860823
WOO | ABRADE
      766
      WOO
      149
      OSYA
      1422
      OSDD
        762
        WBD
        711
        WOO
         513
         UOE
```

40. MYSTICDAWN

0 1 2 3 4 5 6 7 8 9

```
          879
          WAN
270  233735
SAM | STATIC
     2160
     SYDM
     21314
     SYTI
     18900
     YWNM
     24495
     SIIC
     24302
     SITM
      1575
        YC
```

41. YAS

0 1 2 3 4 5 6 7 8 9

```
          SEE
THE | SHOUTS
      12 2
      ASIU
       0
       ECYT
      2 2
      SSUT
        0
        SIYS
        SSUT
        OEE
```

42.

0 1 2 3 4 5 6 7 8 9

```
          LO
ROAR | SCOUT
       DCLL
       RTTAT
       RTTUO
          KK
```

43.

0 1 2 3 4 5 6 7 8 9

```
          AL
WARP | TALLY
       HRPP
       GLLY
       WARP
       AHIY
```

44.

0 1 2 3 4 5 6 7 8 9

```
          ILL
LED | PLIERS
      PDCS
      EIAR
      ESLI
      DRDS
      ESLI
        PTI
```

45.

0 1 2 3 4 5 6 7 8 9

```
          SAT
ALE | SERVE
      SVN
      AIV
      ALE
       TSE
       TAT
        BN
```

LOGIC PROBLEM

13. CALL IN THE FAMILY

by Mary Marks Cezus

The housemates at 11 Oak Road were astounded when they received their phone bill — the total was well over $500! When they sat down to determine the amounts owed, they realized that each of the seven had made a long-distance call that had lasted for a different number of minutes (60, 70, 80, 90, 100, 110, or 120). Looking back, each person remembered that he or she had called a different relative for a different, specific reason. From these clues, can you name each housemate's relative, call subject, and call length?

1. Scott talked for 10 minutes longer than the person who called his or her mother, but for 10 minutes fewer than the one who called for gift suggestions.
2. The person who talked to a sister didn't call to discuss buying a new car or the ingredients for a recipe (which wasn't the purpose of Kyle's call).
3. The one who called an uncle spoke for less time than Louisa, who talked for less time than the one who called for relationship advice.
4. The phone call about gift suggestions lasted for 10 fewer minutes than the one to an aunt.
5. Scott and the person who talked to a cousin (who talked longer than Wes) are best friends.
6. The person who called his or her aunt (who didn't want advice about a recipe) talked for 10 fewer minutes than the one asking about stock investments (who isn't Heidi).
7. Denise talked for less time than the one who called a sister.
8. The person who called a grandfather (who isn't Wes) talked for less time than Adam, who talked for less time than the one who wanted the recipe (who isn't Scott).
9. The housemate who called a brother talked for more time than the one who called for car advice, but for less time than Heidi (who didn't talk to a cousin).
10. The one who called to plan a vacation talked for less time than Adam.
11. The one who phoned the mother talked for 10 minutes longer than the one calling to discuss a new job.

Solution is on page 64.

The table below was found to be of more help in solving this Problem than the usual chart.

housemate	relative	subject	no. of minutes

CROSSMATH

This looks like a crossword puzzle, but it involves numbers, not words. The numbers given in the clues columns are the answers to simple arithmetic problems; the numbers you enter into the diagram will form the problems which result in those answers. All the arithmetic symbols (+, −, x, ÷) have already been entered in their appropriate squares in the diagram. Use the symbols, the crossing numbers, and a bit of logic to determine the digit to enter in each blank square (one digit per square). An important thing to remember: The arithmetic is to be done in the order in which it reads, from left to right or top to bottom — for example, 1 + 2 x 3 equals 9 (1 + 2 = 3; 3 x 3 = 9). If done in any other order, your solution won't work. Arithmetic signs at the beginning or end of a problem (as in 12-Down) should be ignored. You will never use zero as the first digit of a number, though there may be zeroes used as later digits. There are no negative numbers used here, nor are there any fractions used. If you need help getting started, you'll find the correct entry for 19-Across on page 66. **Solution is on page 61.**

ACROSS

1. 84
4. 5
11. 79
13. 3
15. 36
17. 56
18. 13
19. 10
20. 3
22. 8
24. 10
26. 6
27. 417
30. 4
32. 1851
36. 48
37. 34
39. 15
40. 196
41. 1
42. 3
44. 18
45. 199
46. 3
47. 33
48. 1
50. 5
52. 829
56. 4
58. 71
59. 5
61. 9
62. 3
63. 144
64. 10
65. 845
66. 11

DOWN

1. 29
2. 27
3. 192
4. 2
5. 4
6. 3
7. 1428
8. 48
9. 48
10. 30
12. 35
14. 77
16. 15
21. 5
23. 393
25. 67
28. 76
29. 648
31. 59
33. 8
34. 7
35. 160
37. 12
38. 1
40. 73
43. 531
44. 77
47. 18
49. 27
51. 373
52. 7
53. 62
54. 18
55. 54
57. 12
60. 35
61. 10

18

15

1	X	2	3	■	4	+	5	6	7	÷	8	9 6	−	10
11 7	12	+		■	13	14	÷			■	15	X	16	+
17	X			■	−	18		÷		■	−	19 8	+	2
20			÷	21			■	22	X	23		÷		
÷	■	■	24	+		+	25	■	26	+		■	■	■
27	28	29	X		■	30	+	31	■	32 3	X	33 6	34 1	35 7
36 1	6	X	3	■	37			+	38			÷		
39	+		■	40	X				−		■	41	−	
÷	42	X	43			÷				■	44	X		÷
45 2	0		−		■	46	÷		■	47			÷	
■	■	■	48	÷	49	■	50	−	51	X		■	■	+
52 5	53	54 2	+			55 9	■	56	+			÷	57	
58 6	+	6	5	■	59	+	60	÷	3	■	÷	61	X	
÷	62	−		■	÷	63 4	X	3	6	■	64	+		−
65 8		8		−		5		÷		■	66		÷	

Who's a fat pig?

LOGIC PROBLEM

14. 52 PICKUP? TRY 24

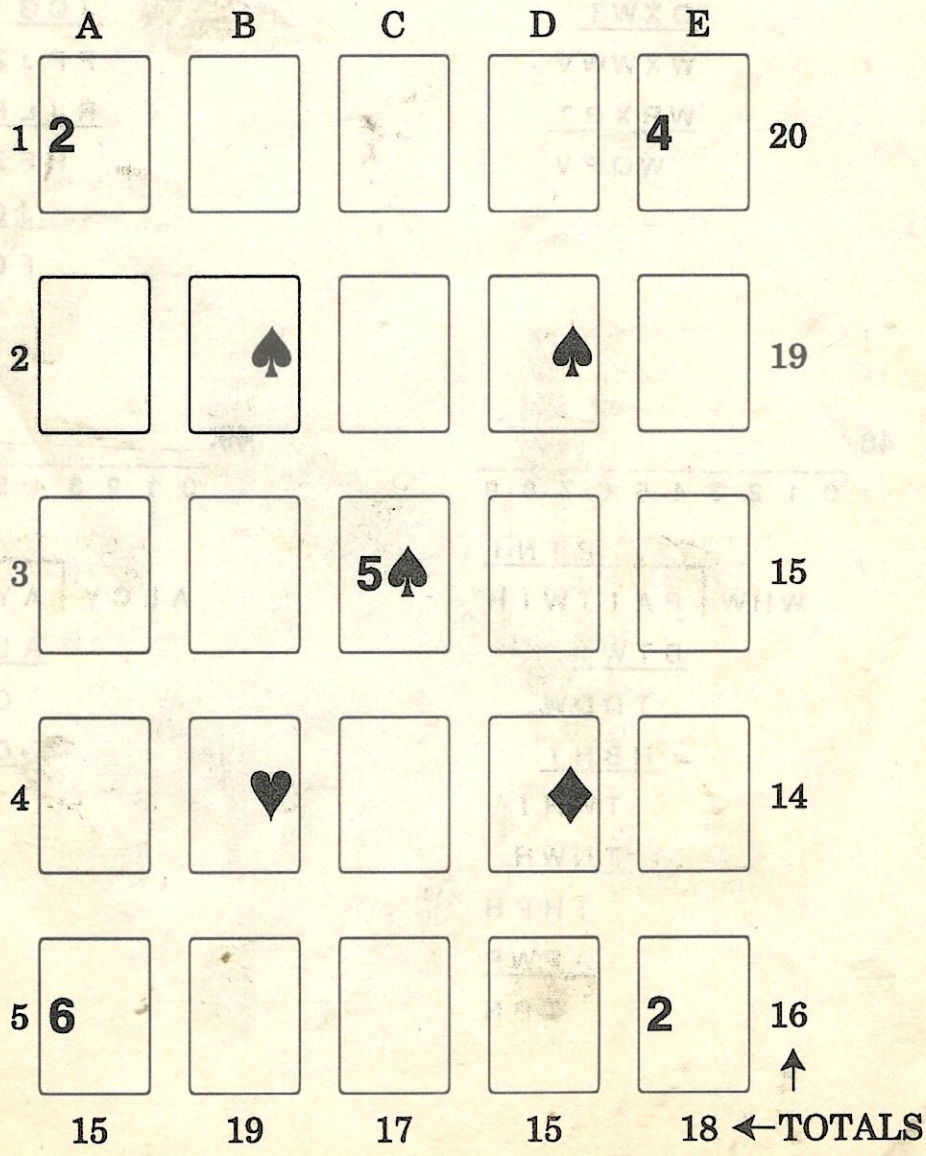
by Robert Nelson

Fiona Frisby believes she has psychic abilities, and to prove it, she uses the aces through sixes of each of the four suits of a standard deck of cards to read people's futures. She deals out the 24 cards in a five-by-five grid, skipping one space selected by the person whose fortune is being read. Fiona then adds up the point values in each row and column (with an ace counting as one) and analyzes these sums to predict her customer's fate. Unfortunately, during a recent reading, her table collapsed and the cards spilled all over the floor. Fiona was able to recall the suits and values of some of the cards, as shown in the layout illustration below. Also, she had noted the row and column point-value totals on a piece of paper. From this information and the clues below, can you determine the value and suit of each card in the grid? *Note: The four suits are clubs, diamonds, hearts, and spades.*

1. No row or column contained two cards of the same value.
2. Each row and column contained at least one card of each suit.
3. No two cards of any suit were next to each other in any row or column.

Solution is on page 64.

The card layout below was found to be of more help in solving this Problem than the usual chart.



BONUS WORD ARITHMETIC!

We often get letters from solvers who love Word Arithmetics, but wish that they weren't getting hints from the spelled-out word(s) as they fill up the answer line. Here are four experimental problems to answer those folks; give them a whirl and write to tell us if you like them! Solve these Word Arithmetics just as you would any other (see page 10 for directions), but note that their letters WILL NOT spell out a word or phrase when arranged in order. Also, as an added twist, each problem contains nine, not ten letters. Therefore, one number WILL NOT be represented by a letter in each problem. Enjoy!

Answers are on page 66.

46.

_ _ _ _ _ _ _ _ _ _

0 1 2 3 4 5 6 7 8 9

```
          V W W R
      ------------
Q X W T | X M P M Q W V
        | X Z V T
        | -------
        |   V Q M Q
        |   Q X W T
        |   -------
        |     Z R Q W
        |     Q X W T
        |     -------
        |       W X W W V
        |       W R X R T
        |       ---------
        |         W Q P V
```

47.

_ _ _ _ _ _ _ _ _ _

0 1 2 3 4 5 6 7 8 9

```
          Z G R F R
      ------------
J C G | Z Z Z Z Z Z Z
      | M J Z P
      | -------
      |   G P Z Z
      |   Z J F G
      |   -------
      |     R R J Z
      |     J C G
      |     -----
      |       F P J Z
      |       R J L P
      |       -------
      |         R F Z Z
      |         J C G
      |         -----
      |           F G J
```

48.

_ _ _ _ _ _ _ _ _ _

0 1 2 3 4 5 6 7 8 9

```
            P T N I
        ------------
W H W | P A I T W I H
      | B T W I
      | -------
      |   T D D W
      |   H B H T
      |   -------
      |     T W H I
      |     T N W H
      |     -------
      |       I H P H
      |       A P W P
      |       -------
      |         T P N
```

49.

_ _ _ _ _ _ _ _ _ _

0 1 2 3 4 5 6 7 8 9

```
            G L H Y
        ------------
A L C Y | A Y G G L Y H
        | A L C Y
        | -------
        |   C H H L Y
        |   C A V C T
        |   -------
        |     V Y Q Q H
        |     V L G C Q
        |     ---------
        |       Y A C G
```

FIGURE LOGIC 9

Directions for solving Figure Logics are on page 11. To complete this puzzle, though, you will also need to know that each of the ten entries marked with an star (*) below is a different 3-digit number whose second digit is the sum of its first and third digits. For example, 792 could be a starred entry because 7 + 2 = 9. Remember, no two of the starred entries are the same.

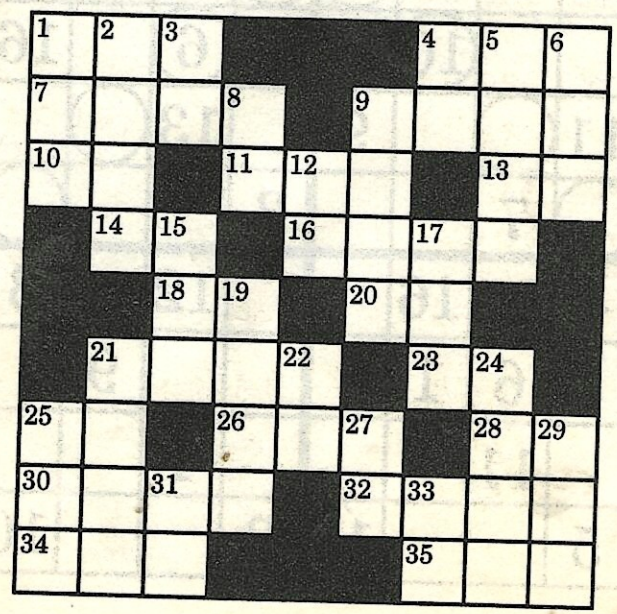
A starting help is given for this puzzle on page 66.

ACROSS

1. *
4. *
7. The number formed by its first two digits minus the number formed by its last two digits equals 10-Across
9. The number formed by its first two digits plus the number formed by its last two digits equals 10-Across
10. 35-Across divided by 3-Down
11. *
13. 6-Down divided by 3-Down
14. 4-Down plus 33-Down
16. Three times the square of 28-Across
18. Number halfway between 10-Across and 13-Across
20. First two digits of 30-Across
21. Different odd digits, but none of them is nine
23. 32-Across divided by 10-Across
25. 25-Down divided by 3-Down
26. *
28. 34-Across divided by 3-Down
30. The number formed by its first two digits is evenly divisible by the number formed by its last two digits
32. Digits of 2-Down, rearranged
34. *
35. *

DOWN

1. *
2. Consecutive digits, rearranged
3. 1-Across is its square
4. 4-Across divided by 3-Down
5. Consecutive digits, rearranged
6. *
8. 29-Down divided by 3-Down
9. Four times 5-Down divided by 3-Down
12. 14-Across plus 22-Down
15. 30-Across divided by 27-Down
17. 32-Across divided by 3-Down
19. 1-Across times 3-Down
21. 21-Across minus 11-Across
22. 27-Down minus 33-Down
24. The number formed by its first two digits minus the number formed by its last two digits equals 33-Down
25. *
27. 26-Across divided by 3-Down
29. *
31. 11-Across divided by 3-Down
33. 1-Down divided by 3-Down



Solution is on page 60

NUMBER PLACE CHALLENGER

by Walter Mackey

Solve this toughie like you solved the Number Places on page 33. However, in this puzzle, you will place a number into every box so that each row across, each column down, each small 16-box square, and each of the two long diagonals (circled) will contain each number from 1 through 16. No number may appear more than once in any row across, in any column down, on either diagonal, or within any small 16-box square.

Solution is on page 60.

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

○		12		14	13				8	6		2			○
	(14)				16			13			9		3	(12)	
4		○	1				8				11		○	5	
		5	○	10		3		7		4		○			9
	6		8	○		2	4	5		15	○	3		13	
		13			○	5		14		○			8		7
7		2			15	○	11		(16)	12		1		9	
11	12			16			(1)	○	2				6		
	7		4	1	3		○	○		14	15				8
2		1				(10)			(6)		16	14			
15		14		11	○		9		13	○		10		6	
	13			○	7			3			○			15	12
		8	(13)	4		16			12		3	(7)		11	
	15	○			6	1				9			○	10	16
5	○		7		11				1				2	○	14
○		4		5			14	8			10		9		○

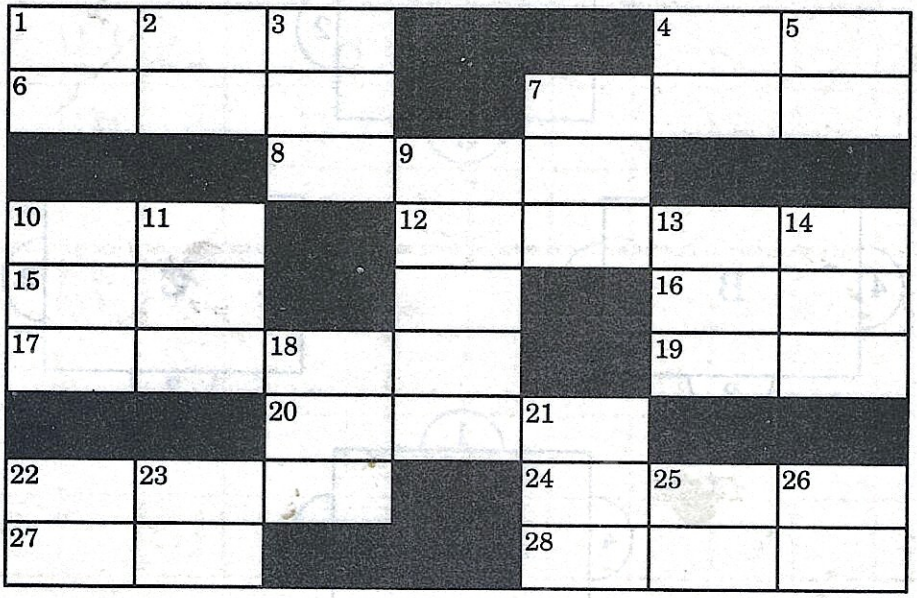
FIGURE LOGIC 10

by Linda Thistle

Directions for solving Figure Logics are on page 11. The clues below are all you will need to complete this tricky puzzle.

A starting hint is on page 66.

1. Each box contains ONE or TWO digits. 4-Across, 10-Across, 1-Down, 22-Down, and 23-Down each have two digits, while 24-Across and 21-Down each have three digits. We're not telling you, though, how many digits are in the other numbers!
2. Unlike other Figure Logics, an answer MAY begin with one or more zeros. However, no answer consists totally of zeroes.
3. 6-Across equals 3-Down plus 4-Down;
   10-Across equals 8-Across plus 21-Down;
   16-Across equals 24-Across plus 4-Down;
   19-Across equals 1-Across plus 10-Down;
   4-Across equals 24-Across plus 21-Down;
   4-Down equals 5-Down plus 22-Down;
   21-Down equals 8-Across plus 25-Down.
4. 17-Across equals 12-Across minus 14-Down.
5. 15-Across equals 1-Down times 26-Down;
   20-Across equals 4-Across times 23-Down;
   22-Across equals 1-Down times 22-Down;
   27-Across equals 25-Down times 26-Down;
   2-Down equals 27-Across times 23-Down;
   7-Down equals 8-Across times 11-Down.
6. 12-Across is the square of 9-Down;
   5-Down is the square of 21-Down.
7. 7-Across equals 17-Across divided by 25-Down;
   20-Across equals 18-Down divided by 4-Across;
   28-Across equals 13-Down divided by 25-Down;
8. 9-Down consists of consecutive digits in ascending order.
9. No two answers have the same numerical value.



Solution is on page 60

LOGIC PROBLEM

15. CHAIR AND CHAIR ALIKE

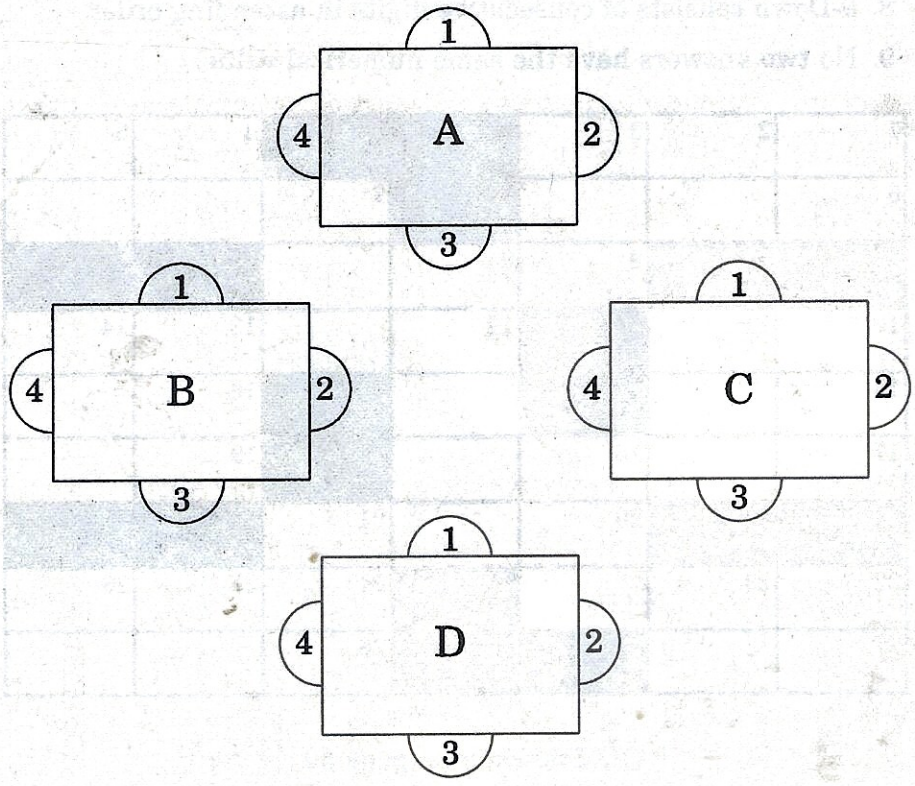
by Kevyn Dymond

Eight husbands (Arnie, Bill, Calvin, Doug, Earl, Fred, Gary, and Hank) and their wives (Alice, Bev, Cathy, Doris, Elyse, Flora, Gloria, and Helen) recently attended a management seminar. They occupied 16 chairs (A1 through D4, as shown in the illustration below) in the meeting room, with two women and two men at each table. Each husband shares a surname with his wife, and two of these surnames are Anderson and Fischer. From the information below, can you determine the full name of the person in each seat?

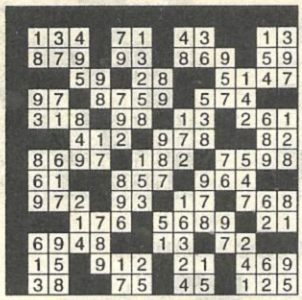
1. No husband and wife sat at the same table, nor did they sit in chairs with the same number.
2. For each couple, the husband's first-name initial, the wife's first-name initial, and their last-name initial are three different letters.
3. The eight couples are Doris and her husband, Flora and her husband, Calvin and his wife, Hank and his wife, Mr. Elkhorn (who didn't sit in chair 1 at his table) and his wife, the Baileys, the woman in C4 and her husband, and the man in D1 and his wife.
4. Alice was seated at the same table as Gloria.
5. Cathy's seat (which was at the same table as Gary's) had the same number as Elyse's.
6. Earl and Bev are husband and wife; one of the two sat at table A.
7. The four 3 seats were occupied by, in some order, Fred, Doris, Mr. Bailey, and Mrs. Hamilton (who isn't married to Bill).
8. Neither Mr. nor Mrs. Gardner sat at table D.
9. Elyse's husband and Hank's wife each sat in chair 2 at their respective tables.
10. The four people seated at table B were, in some order, Helen, Bill, Mrs. Dalton, and Mr. Chambers.
11. Both Calvin's seat and Mr. Hamilton's seat had the same number.

Solution is on page 64.

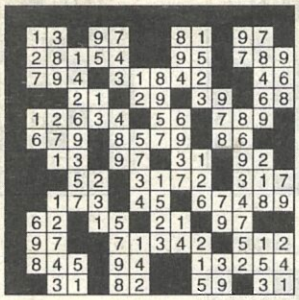
The table layout below was found to be of more help in solving this Problem than the usual chart.



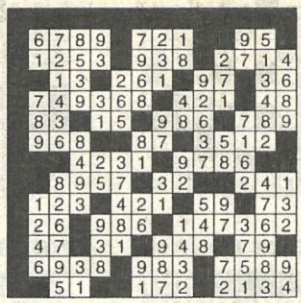
CROSS SUMS 1



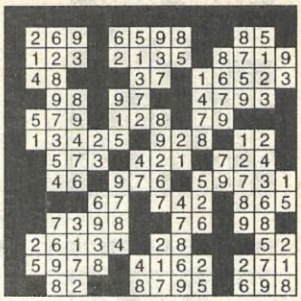
CROSS SUMS 2



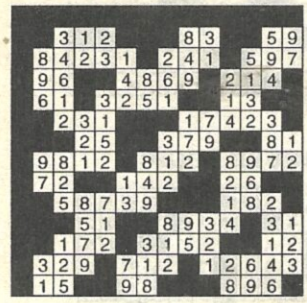
CROSS SUMS 3



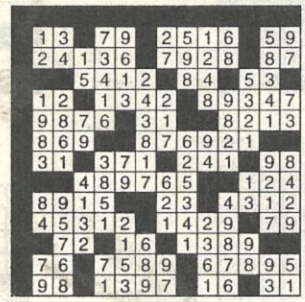
CROSS SUMS 4



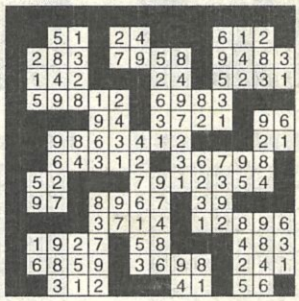
CROSS SUMS 5



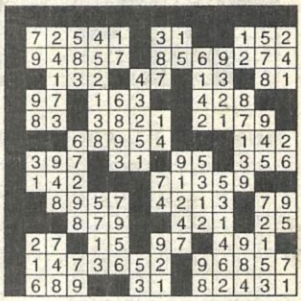
CROSS SUMS 6



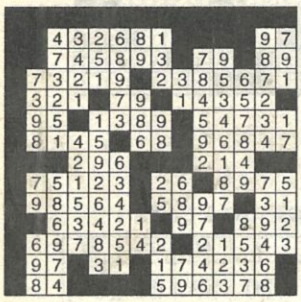
CROSS SUMS 7



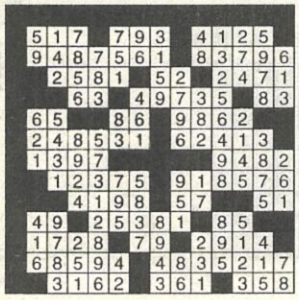
CROSS SUMS 8



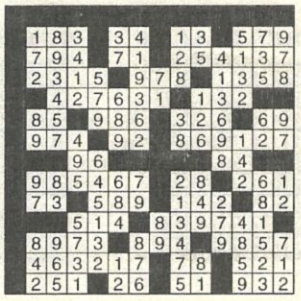
CROSS SUMS 9



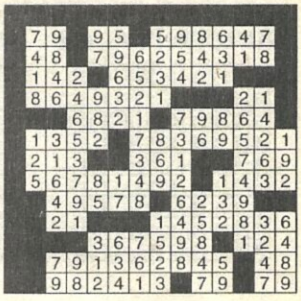
CROSS SUMS 10



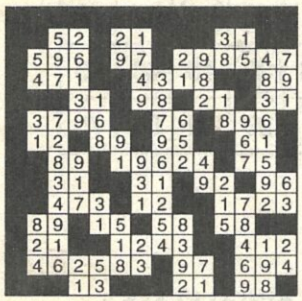
CROSS SUMS 11



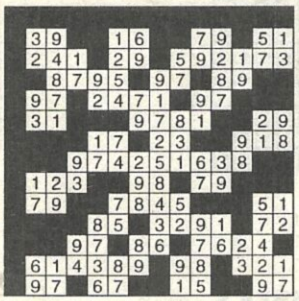
CROSS SUMS 12



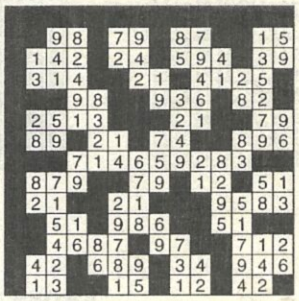
CROSS SUMS 13



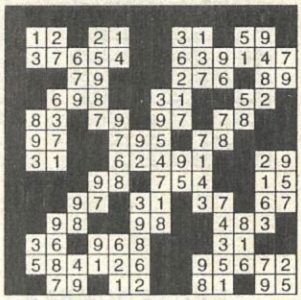
CROSS SUMS 14



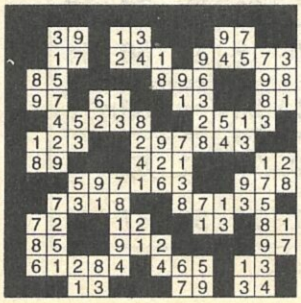
CROSS SUMS 15



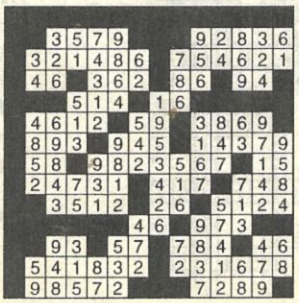
CROSS SUMS 16



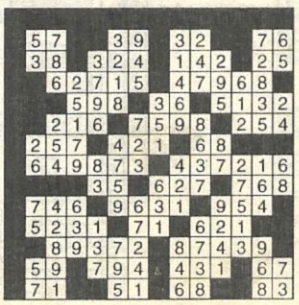
CROSS SUMS 17



CROSS SUMS 18



CROSS SUMS 19



CROSS SUMS 20

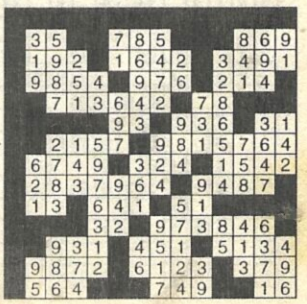


FIGURE LOGIC 1

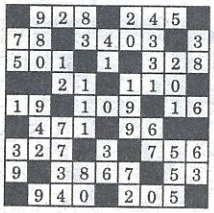


FIGURE LOGIC 2

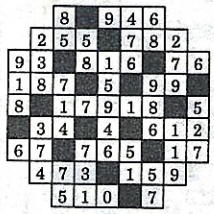
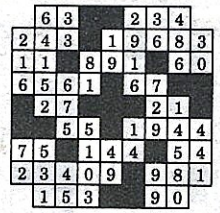


FIGURE LOGIC 3



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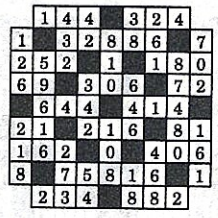

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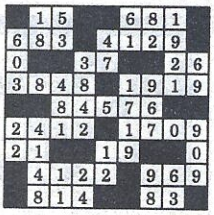

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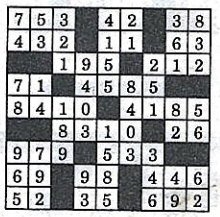

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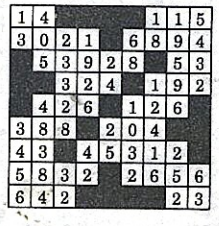


FIGURE LOGIC 9

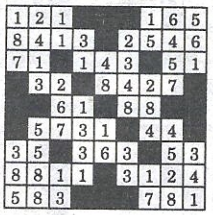


FIGURE LOGIC 10

0	21	7			1	0
8	6	6		32	06	81
		0	0	6		
1	5		1	52	27	56
1	44		2		1	07
96	2	04	3		14	13
		0	4	0		
2	0	0		0	0	1
5	4			9	03	8

NUMBER PLACE 1

2	1	9	4	3	8	7	6	5
7	3	5	6	1	2	9	4	8
4	6	8	9	5	7	1	2	3
9	2	1	8	6	3	4	5	7
3	8	4	5	7	1	6	9	2
5	7	6	2	4	9	8	3	1
8	4	2	1	9	5	3	7	6
1	9	3	7	2	6	5	8	4
6	5	7	3	8	4	2	1	9

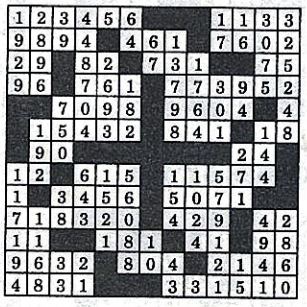
NUMBER PLACE 2

2	1	7	5	9	3	6	4	8
6	3	4	1	8	2	7	9	5
9	5	8	6	7	4	1	2	3
1	7	2	9	3	6	5	8	4
4	9	5	8	1	7	3	6	2
8	6	3	4	2	5	9	1	7
5	2	1	7	6	8	4	3	9
3	4	6	2	5	9	8	7	1
7	8	9	3	4	1	2	5	6

NUMBER PLACE 3

1	7	5	9	3	6	4	8	2
8	9	4	2	5	7	3	6	1
2	3	6	1	4	8	5	9	7
5	4	9	6	7	3	2	1	8
7	1	2	8	9	5	6	3	4
6	8	3	4	2	1	9	7	5
4	5	1	3	8	9	7	2	6
9	2	8	7	6	4	1	5	3
3	6	7	5	1	2	8	4	9

FIGURE LOGIC 7



NUMBER PLACE 4

1	4	7	2	5	9	3	6	8
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8	2	9	7	3	6	4	1	5
4	7	1	9	2	5	8	3	6
2	8	3	6	1	7	5	9	4
5	9	6	4	8	3	2	7	1
3	1	2	5	9	4	6	8	7
7	5	8	1	6	2	9	4	3
9	6	4	3	7	8	1	5	2

NUMBER PLACE 5

1	3	4	2	6	7	5	8	9
9	6	8	3	5	1	4	2	7
2	5	7	4	8	9	1	3	6
6	8	1	7	2	3	9	5	4
3	9	5	8	4	6	7	1	2
4	7	2	9	1	5	8	6	3
5	1	9	6	3	4	2	7	8
7	2	6	1	9	8	3	4	5
8	4	3	5	7	2	6	9	1

NUMBER PLACE 6

1	2	4	3	7	8	5	6	9
9	8	6	5	1	4	7	3	2
3	5	7	2	6	9	1	4	8
6	9	1	4	3	7	8	2	5
8	3	5	6	9	2	4	7	1
4	7	2	8	5	1	3	9	6
5	1	3	7	2	6	9	8	4
2	4	9	1	8	3	6	5	7
7	6	8	9	4	5	2	1	3

BINGO PLAYS 1

	B	I	N	G	O
P	5	20	39	56	(68)
L	15	24	44	(49)	71
A	1	18	(FREE)	54	65
Y	13	(27)	45	46	63
S	(7)	29	32	59	75

NUMBER PLACE 7

1	4	3	6	5	7	9	8	2
9	2	5	4	8	1	3	6	7
6	7	8	3	2	9	5	4	1
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NUMBER PLACE 8

5	4	2	9	3	6	8	1	7
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9	2	8	3	6	5	4	7	1
1	7	3	8	4	9	6	5	2
4	6	5	7	1	2	3	8	9

NUMBER PLACE 9

9	7	5	2	6	8	3	4	1
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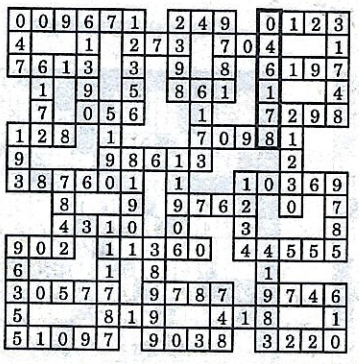
KROSS NUMBER 1



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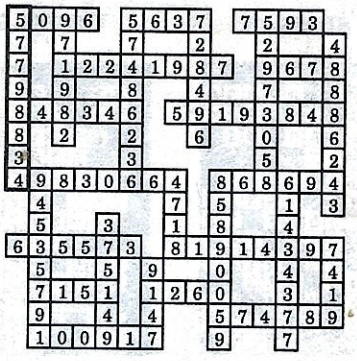

BINGO PLAYS 2

	B	I	N	G	O
P	6	21	40	49	73
L	10	18	42	56	64
A	(2)	(26)	(FREE)	(59)	(75)
Y	12	28	31	52	61
S	11	16	36	47	68

NUMBER FILL-IN

3	11	19	27	35		21	24	27	30	33	36	39	42	45
5			28			31			32					47
7			29	33	37	41	45		34	37	40	43	46	49
9	16	23	30		39		47		36		42			
11		27			41		49		38		44			50
13		31	35	39	43	47	51		40	43	46	49	52	55
15		35			45		53			50		52		60
17	28	39	50		47		55			57		55		65
19					49	53	57			64		58		70
21	31	41	51		51		59	63	67	71		61	68	75
23			65		53		61			78		64		80
25	43	61	79		55		63			85		67		85
27			93		57		65	74	83	92		70		90
29			107		59		67			99		73	84	95
31	61	91	121		61	65	69	73		106		76		100

CROSSMATH

6	x	1	4		9	+	4	2	3	÷	3	6	−	7
7	5	+	4		4	5	÷	1	5		4	x	9	+
2	x	2	8		−	9	1	÷	7		−	8	+	2
8	7	6	÷	2	9	2		7	x	7	2	÷	6	3
÷			7	+	2	+	1		4	+	2			
1	3	9	x	3		1	+	3		3	x	6	1	7
1	6	x	3		2	0	6	+	9	8	4	÷	3	5
6	+	9		2	x	1	0	1	−	6		3	−	2
÷	4	x	2	1	6	÷	2	8	8		3	x	6	÷
2	0	8	−	9		9	÷	3		2	6	4	÷	8
			1	÷	1		9	−	4	x	1			+
5	2	2	+	3	0	7		9	+	9	9	÷	2	7
6	+	6	5		8	+	7	÷	3		÷	3	x	3
÷	6	−	3		÷	4	x	3	6		4	+	6	−
8	0	8	0	−	4	7	5	÷	9		7	7	÷	7

NUMBER PLACE CHALLENGER

16	3	12	9	14	13	11	15	10	8	6	5	2	4	7	1
8	14	7	6	2	16	4	5	13	15	1	9	11	3	12	10
4	10	15	1	7	12	9	8	16	3	2	11	6	14	5	13
13	2	5	11	10	1	3	6	7	14	4	12	15	16	8	9
1	6	16	8	9	14	2	4	5	10	15	7	3	12	13	11
3	4	13	15	6	10	5	12	14	9	11	1	16	8	2	7
7	5	2	14	3	15	13	11	6	16	12	8	1	10	9	4
11	12	9	10	16	8	7	1	4	2	3	13	5	6	14	15
10	7	11	4	1	3	6	2	12	5	14	15	9	13	16	8
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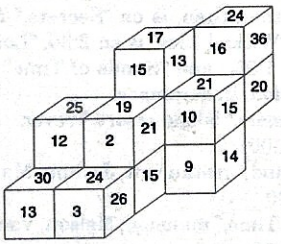
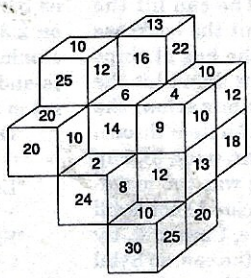
15	16	14	3	11	5	12	9	1	13	8	4	10	7	6	2
9	13	6	5	8	7	14	16	3	11	10	2	4	1	15	12
14	1	8	13	4	9	16	10	2	12	5	3	7	15	11	6
12	15	3	2	13	6	1	7	11	4	9	14	8	5	10	16
5	9	10	7	12	11	8	3	15	1	16	6	13	2	4	14
6	11	4	16	5	2	15	14	8	7	13	10	12	9	1	3

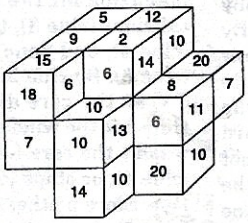
ON THE SURFACE 1



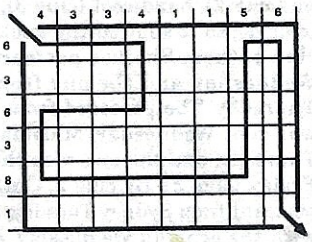
ON THE SURFACE 2



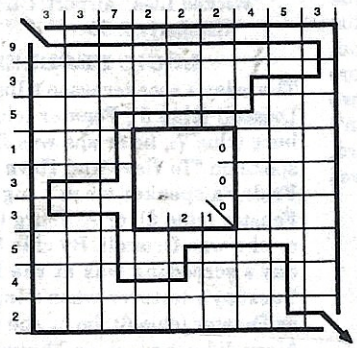
ON THE SURFACE 3



MATH MAZE 1



MATH MAZE 2



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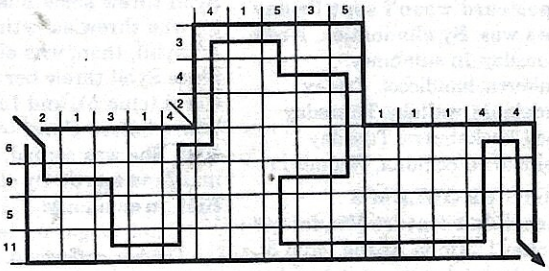

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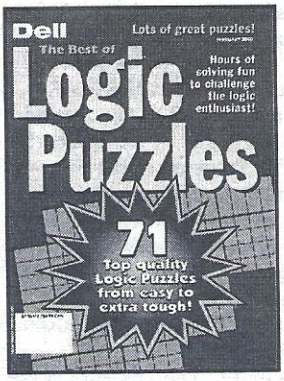
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LOGIC PROBLEM 1

Rita didn't bring the bergamots or quinces (clue 1) or pomelos (clue 4), so she brought the rambutans. She isn't Rind (clue 1), Core (clue 2), or Tree (clue 4); she is Peel. Since Tree did not bring the quinces (clue 3) or the pomelos (clue 4), he or she brought the bergamots. By clue 1, Rind didn't supply the quinces, so Core did. By elimination, Rind brought the pomelos. Cleo isn't Tree or Core (clue 3); she is Rind. By clue 2, since Nick isn't Core, he's Tree. By elimination, Barry is Core. In summary:

Barry Core, quinces
Cleo Rind, pomelos
Nick Tree, bergamots
Rita Peel, rambutans

LOGIC PROBLEM 2

Tuesday's postcard didn't depict the echidna (clue 2), bandicoot (clue 3), or wallaby (clue 4), so it showed the kookaburra. By clue 1, then, Sheila's postcard was sent Wednesday and the one from Adelaide Thursday. The postcard from Melbourne was sent Wednesday, Matilda's postcard Thursday, and the one with the bandicoot Friday (clue 3). By clue 2, Curtis sent the postcard from Sydney Tuesday, and the one with the echidna Wednesday. By elimination, the bandicoot postcard was sent from Canberra, and the wallaby one from Adelaide. Ned's postcard wasn't sent Friday (clue 4); Bruce's was. By elimination, Ned's was sent on Tuesday. In summary:

Bruce, Canberra, bandicoot, Friday
Matilda, Adelaide, wallaby, Thursday
Ned, Sydney, kookaburra, Tuesday
Sheila, Melbourne, echidna, Wednesday

LOGIC PROBLEM 3

The 1995 video didn't feature Vandalay's Theda Bara (clue 1), Bella Abzug (clue 3), or Greta Garbo look (clue 4), so it had her Amelia Earhart look. By clue 2, "I'm Fabulous" was released in 1996. The 1995 video wasn't "Sayonara" (clue 1) or "You Never Know" (clue 5); it was "Aromatherapy." Since the Theda Bara look wasn't in "Sayonara" (clue 1) or "You Never Know" (clue 5), it was in "I'm Fabulous." By clue 3, the Bella Abzug video didn't debut in 1991, so the Greta Garbo one did. By elimination, the Bella Abzug video came out in 1992. By clue 3, the Hat Trick was introduced in 1991. The Finger Point video did not bow in 1995 or 1996 (clue 1); it debuted in 1992. By clue 2, since the Girlpower was not introduced in 1995, it debuted in 1996. By elimination, "Aromatherapy" introduced the Diva Stomp. "Sayonara" wasn't 1992's video (clue 1), so it was 1991's. By elimination, "You Never Know" was 1992's. In summary:

Bella Abzug, "You Never Know," Finger Point, 1992
Theda Bara, "I'm Fabulous," Girlpower, 1996
Amelia Earhart, "Aromatherapy," Diva Stomp, 1995
Greta Garbo, "Sayonara," Hat Trick, 1991

LOGIC PROBLEM 4

Neither Leon (clue 2) nor Jack (clue 3) was second, so either Kevin or Milt was. The second brother didn't wear the polka-dot (clue 1), zigzag (clue 3), or floral shirt (clue 4); he wore the paisley. By clue 2, then, the one in white was third and Leon was fourth. Since the first brother didn't wear the polka-dot (clue 1) or floral shirt (clue 4), he wore the zigzag shirt. Neither Milt (clue 1) nor Jack (clue 3) was first, so Kevin was. Jack wasn't second (clue 3); he was third. By elimination, Milt was second. By clue 1, Kevin wore maroon and Jack wore the polka-dot shirt. Since Milt wasn't in lime green (clue 3), Leon was. By elimination, Milt was in coral, and Leon had the floral shirt. In summary:

Jack, white, polka-dot, third
Kevin, maroon, zigzag, first
Leon, lime green, floral, fourth
Milt, coral, paisley, second

LOGIC PROBLEM 5

By clue 1, Linda threw the core and the magazine hit the phone. The can hit the calendar (clue 3), the cup hit the bookcase (clue 4), and Zena threw the bag of chips (clue 6). By clue 2, the chips didn't hit the TV, so the core did. By elimination, the chips hit the window. The fifth item thrown wasn't the core (clue 1), can (clue 3), cup (clue 4), or chips (clue 6); it was the magazine. Since neither Debbie (clue 1) nor Sybil (clue 5) threw the magazine, Carol did. By clue 3, Debbie didn't throw the can, so Sybil did. By elimination, Debbie threw the cup. Sybil threw sometime before Debbie (clue 3), who threw sometime before Zena (clue 4); Sybil, then, was either first or second. Since Sybil threw her item one hour before Carol (clue 5), and Linda threw hers two hours before Carol (clue 1), Sybil wasn't first. She was second, so Debbie was third, and Zena fourth. By elimination, Linda was first. In summary:

Carol, magazine, telephone, fifth
Debbie, coffee cup, bookcase, third
Linda, apple core, TV screen, first
Sybil, soda can, calendar, second
Zena, bag of chips, window, fourth

LOGIC PROBLEM 6

By clue 2, Val's solution was fifth. Nora is in 424 or 425 (clue 3). By clue 1, then, Nora is in 424 and Ms. Dennison is in 425. Nora is Ms. Albert, Ms. Condon is in 422, and the woman in 426 brought methyl hydrate (clue 6). By clue 4, Ms. Ennis is in 427, Ms. Dennison brought dog shampoo, and the woman in 423 brought benzene. Val is in 426, and Ms. Ennis brought borax (clue 8). By elimination, Ms. Condon brought hydrogen peroxide. She isn't Ruth (clue 5), Betty (clue 6), or Wendy (clue 7), so she is Tina. By clue 3, then, Val is Ms. Gibb. By elimination, Ms. Frank is in 423. She isn't Ruth (clue 5) or Wendy (clue 7); she is Betty. Also by clue 7, Ruth is in 425, and Wendy is in 427. Since Betty's solution wasn't first or second (clue 5) or fourth (clue 7), it was third. Ruth's solution was second and Tina's first (clue 5). By elimination, Wendy's was fourth. In summary:

Betty Frank, 423, benzene, third
Nora Albert, 424
Ruth Dennison, 425, dog shampoo, second
Tina Condon, 422, hydrogen peroxide, first
Val Gibb, 426, methyl hydrate, fifth
Wendy Ennis, 427, borax, fourth

LOGIC PROBLEM 7

"Daydreamers" is on 1:00, and the 2:00 show takes place at a hospital (clue 2). By clue 7, Marcia appears on the 1:30 show and Nelson is on the 3:00 show. Christopher appears on "Wicked Lies" (clue 1) and "Long Island" is set in a restaurant (clue 6). By clue 8, Trevor's show is set on the island, so it is "Daydreamers," "Secrets," or "Sands of Time." "Secrets" is on 2:00 or 3:00 (clue 4); Trevor, then, isn't on "Secrets." By clue 9, since "Sands of Time" with Vanessa is also on 2:00 or 3:00, Trevor isn't on "Sands of Time" either; Trevor is on "Daydreamers." Kimberly's show is set at an airport (clue 3), and Heather's costar is Brad (clue 5). Trevor's costar, then, is Nola. By clue 4, Joshua is on the 1:30 show, and "Secrets" is on 2:00. "Sands of Time," then, is on 3:00. By elimination, Kimberly's show is on 2:30. Heather, then, is on "Secrets." By elimination, "Wicked Lies" is on 2:30, "Long Island" is on 1:30, and "Sands of Time" is set in a mansion. In summary:

"Daydreamers," island resort, Trevor, Nola, 1:00
"Long Island," restaurant, Joshua, Marcia, 1:30
"Sands of Time," mansion, Nelson, Vanessa, 3:00
"Secrets," hospital, Brad, Heather, 2:00
"Wicked Lies," airport, Christopher, Kimberly, 2:30

LOGIC PROBLEM 8

Thursday's speaker wasn't Ingram (clue 1), Driscoll (clue 5), Fenster (clue 6), or Ashburg (clue 7); he or she was Eastman, who spoke on "To Have and Have Not" (clue 3). Friday's speaker wasn't Ingram (clue 1), Fenster (clue 6), or Ashburg (clue 7), so he or she was Driscoll. By clue 5, then, Monday's screening was at the Rialto. Since Tuesday's lecturer wasn't Ingram (clue 1) or Fenster (clue 6), he or she was Ashburg. Mary did not speak on Thursday (clue 2) or Monday, Tuesday, or Wednesday (clue 7), so she spoke on Friday. By clue 4, the Strand screening was on Tuesday and Harry spoke on Thursday. Larry spoke on Tuesday, Fenster on Monday, and the "Casablanca" speaker on Wednesday (clue 6). By elimination, Ingram spoke on Wednesday. By clue 1, "To Have and Have Not" was at the Bijou, and Mary Driscoll talked about "The Big Sleep." Kerri isn't Ingram (also clue 1); she's Fenster. Jerry, by elimination, is Ingram. By clue 2, since Mary didn't speak at the Nu-Art, she spoke at the Metro. By elimination, Jerry spoke at the Nu-Art. "The Maltese Falcon" wasn't at the Strand Theater (clue 4), so it was at the Rialto. By elimination, "The Treasure of the Sierra Madre" was at the Strand. In summary:

Harry Eastman, "To Have and Have Not," Bijou, Thursday
Jerry Ingram, "Casablanca," Nu-Art, Wednesday
Kerri Fenster, "The Maltese Falcon," Rialto, Monday
Larry Ashburg, "The Treasure of the Sierra Madre," Strand, Tuesday
Mary Driscoll, "The Big Sleep," Metro, Friday

LOGIC PROBLEM 9

By clue 5, the sundae with marshmallow syrup had nuts and whipped cream, but it wasn't Gomez's. Alex, then, ordered it (clue 2). By clue 3, Alex had vanilla ice cream. The one who had strawberry ice cream isn't Jones (clue 1), Gomez (clue 2), Hirsch (clue 6), or Kadeem (clue 8); he or she is Ishikawa. Since Alex isn't Jones (clue 1), Gomez (clue 2), or Kadeem (clue 8), he's Hirsch. By clue 3, the sundae with pineapple syrup had nuts. It wasn't ordered by Jones (clue 1) or Kadeem (clue 8), then. Gomez had whipped cream (clue 2), so he or she didn't have pineapple syrup (clue 3); Ishikawa had it. Since Dana had nuts (also clue 3), she isn't Jones (clue 1) or Kadeem (clue 8). Dana, then, is Gomez. By clue 6, Ishikawa isn't Ellen or Charlie, so he's Bob. Ellen isn't Jones (clue 4); she is Kadeem. By elimination, Charlie is Jones. By clue 4, since neither Ellen nor Charlie had butter pecan ice cream, Dana did. Charlie didn't have chocolate ice cream (clue 7), so he had fudge ripple. By elimination, Ellen had chocolate ice cream. Neither Charlie nor Dana had hot fudge syrup (clue 9); Ellen did. By clue 7, since Charlie didn't have butterscotch syrup, Dana did. By elimination, Charlie had caramel syrup. The only ones who had whipped cream are Alex and Dana (clue 2), and the only ones who had nuts are Bob, Alex, and Dana (clue 3), so neither Charlie nor Ellen had any toppings. In summary:

Alex Hirsch, vanilla ice cream with marshmallow syrup, nuts, and whipped cream
Bob Ishikawa, strawberry ice cream with pineapple syrup and nuts
Charlie Jones, fudge ripple ice cream with caramel syrup
Dana Gomez, butter pecan ice cream with butterscotch syrup, nuts, and whipped cream
Ellen Kadeem, chocolate ice cream with hot fudge syrup

LOGIC PROBLEM 10

By clue 11, Adsitt is one inch shorter than Rowland, who is one inch shorter than Ludwig. Emerson, who is four inches shorter than Paulson (clue 9), is one inch shorter than Adsitt, and Paulson is one inch taller than Ludwig. By clue 4, Corson is three inches shorter than Rowland, and Henley is three inches taller than Rowland. Corson, then, is 5'1", Emerson is 5'2", Adsitt is 5'3", Rowland is 5'4", Ludwig is 5'5", Paulson is 5'6", and Henley is 5'7". Lorna isn't 5'2" (clue 3) or 5'1", 5'5", 5'6", or 5'7" (clue 10), so she is either 5'3" or 5'4". If she were 5'3", by clue 10, the one who guessed daffodils would be 5'2". Since Moira wouldn't be 5'1", 5'5", 5'6", or 5'7" (clue 2) or 5'2" (clue 5), she would be 5'4". By clue 2, then, the one who guessed gardenias would be 5'5". This, however, contradicts clue 8. Therefore, Lorna isn't 5'3"; she is 5'4". The one who guessed daffodils is 5'3" (clue 10). Moira isn't 5'2", 5'5", 5'6", or 5'7" (clue 2) or 5'3" (clue 5), so she's 5'1". By clue 2, the one who guessed gardenias is 5'2". Kristen isn't 5'3", 5'6", or 5'7" (clue 7). By clue 3, Lorna didn't guess poppies. Kristen, then, is 5'2", Moira guessed poppies, and Hannah is 5'3" (clue 7). By clue 6, since neither Claire nor Diane is Ludwig, Fara is. Diane isn't 5'7" (clue 1); Claire is. By elimination, Diane is 5'6". By clue 1, Claire guessed daisies. Lorna guessed carnations, and Fara guessed morning glories (clue 12). By elimination, Diane guessed roses. In summary:

Claire Henley, 5'7", daisies
Diane Paulson, 5'6", roses
Fara Ludwig, 5'5", morning glories
Hannah Adsitt, 5'3", daffodils
Kristen Emerson, 5'2", gardenias
Lorna Rowland, 5'4", carnations
Moira Corson, 5'1", poppies

LOGIC PROBLEM 11

The fifth item wasn't the mouthwash (clue 1), pen (clue 3), or toothbrush (clue 5), so it was either the combs or shampoo. By clue 4, since the 95¢ item was neither the combs (clue 2) nor the shampoo (clue 4), the 95¢ item wasn't fifth; it was either third or fourth. If the 95¢ item were fourth, George would have been first, Mr. Kachi second, and the one who bought shampoo third (clue 4). The fifth man, then, would have bought combs. He wouldn't have been Mr. Lyons (clue 1), Mr. Olsen (clue 2), or Mr. Nash (clue 3), so he would have been Mr. Mendez. Since the fourth man wouldn't have bought mouthwash (clue 1) or the toothbrush (clue 5), he would have bought the pen. He wouldn't have been Mr. Olsen (clue 2) or Mr. Nash (clue 3); he would have been Mr. Lyons. By clue 1, then, Ivan would have been third and Mr. Kachi would have bought the mouthwash. Frank wouldn't have been fourth or fifth (clue 3), so he would have been second. By clue 2, Herb would have been fourth and the combs would have cost 97¢. This, however, contradicts clue 3. Therefore, the 95¢ item wasn't fourth; it was third. George was first, Mr. Kachi fourth, and the shampoo-buyer last (clue 4). By clue 5, since Mr. Mendez wasn't first, second, or third, he was last. Mr. Lyons was third, Ivan second, and the mouthwash buyer first (clue 1). The combs weren't third (clue 2) or fourth (clue 6), so they were second. By clue 5, Mr. Kachi did not buy the toothbrush; he bought the pen. By elimination, Mr. Lyons bought the toothbrush. Since Ivan isn't Mr. Olsen (clue 2), he is Mr. Nash. By elimination, George is Mr. Olsen. By clue 3, the one who spent 97¢ isn't Mr. Nash, Kachi, or Mendez, so he's Mr. Olsen. Herb, then, spent 96¢ and Mr. Nash 98¢ (clue 2). By clue 5, Mr. Mendez paid 99¢. Herb, then, was fourth. Frank wasn't fifth (clue 3); he was third. By elimination, Joe was fifth. In summary:

Frank Lyons, toothbrush, 95¢, third
George Olsen, mouthwash, 97¢, first
Herb Kachi, pen, 96¢, fourth
Ivan Nash, combs, 98¢, second
Joe Mendez, shampoo, 99¢, fifth

LOGIC PROBLEM 12

Flo has consumed one fewer ounce than the one on sucrose and three fewer ounces than the one hurt by flypaper (clue 2). By clue 3, Geena has consumed two more ounces than the one on lactose and one ounce fewer than the one hurt by the zapper. Since there are five flies, at least one fly mentioned in clue 2 is the same as a fly mentioned in clue 3. If this fly were Flo, she would be the one hurt by the zapper. The one on lactose, then, would have consumed two fewer ounces than Geena, who would have consumed one fewer ounce than Flo, who would have consumed one fewer ounce than the one on sucrose, who would have consumed two fewer ounces than the one hurt by flypaper. By clue 4, however, this setup leaves no place for Phil. Therefore, the fly from clue 2 who is the same as one from clue 3 is not Flo; that fly is either the one on sucrose or the one hurt by flypaper. If that fly were hurt by flypaper, he or she would be the one on lactose. Flo, then, would have consumed one fewer ounce than the one on sucrose, who would have consumed two fewer ounces than the one hurt by flypaper, who would have consumed two fewer ounces than Geena, who would have consumed one fewer ounce than the one hurt by the zapper. By clue 4, however, this setup again leaves no place for Phil. Therefore, the fly in clue 2 who is the same as one in clue 3 wasn't hurt by flypaper; he or she is the one on sucrose, and is Geena. The one on lactose, then, has consumed one fewer ounce than Flo, who has consumed one fewer ounce than Geena, who has taken in one fewer ounce than the one hurt by the zapper, who has taken in one fewer ounce than the one hurt by flypaper. Phil was hurt by the zapper, Flo is on maltose, and the one hurt by the fan is on lactose (clue 4). By clue 2, Flo wasn't hurt by the web, so she was hurt by the swatter. By elimination, Geena was hurt by the web. She has consumed seven ounces (clue 5). Flo, then, has consumed six ounces, the one hurt by the fan five, Phil eight, and the one hurt by flypaper nine. By clue 5, Vincent has consumed nine ounces. By elimination, Buzz has consumed five ounces. Phil is not on fructose (clue 1); Vincent is. By elimination, Phil is on glucose. In summary:

Buzz, ceiling fan, five ounces of lactose
Flo, fly swatter, six ounces of maltose
Geena, spider web, seven ounces of sucrose
Phil, bug zapper, eight ounces of glucose
Vincent, flypaper, nine ounces of fructose

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LOGIC PROBLEM 13

The phone call about gifts was 10 minutes longer than Scott's, which was 10 minutes longer than the one to the mother (clue 1), which was 10 minutes longer than the one about the job (clue 11). The call about gifts was 10 fewer minutes than the one to the aunt (clue 4), which was 10 fewer minutes than the one about stocks (clue 6). Six of the seven phone calls in order from shortest to longest, then, were the one about the job, the one to the mother, Scott's, the one about gifts, the call to the aunt, and the one about the stocks; the call about the stocks was either 110 or 120 minutes. If it had been 110 minutes, the call to the aunt would have been 100 minutes, the one about gifts 90, Scott's 80, the one to the mother 70, and the one about the job 60. The recipe call wouldn't have been 100 (clue 6) or 70 or 80 minutes (clue 8), so it would have been 120. Since the recipe caller wouldn't have been Kyle (clue 2), Louisa (clue 3), Wes (clue 5), Denise (clue 7), or Adam (clue 8), she would have been Heidi. Heidi wouldn't have called the sister (clue 2), uncle (clue 3), grandfather (clue 8), or brother (clue 9), so she would have called the cousin. This, however, contradicts clue 9. Therefore, the call about stocks wasn't 110 minutes; it was 120. The call to the aunt, then, was 110 minutes, the one about gifts 100, Scott's 90, the one to the mother 80, and the one about the job 70. Since the recipe call wasn't 110 (clue 6) or 60 or 90 minutes (clue 8), it was 80. By clue 8, Adam's call was 70 minutes, and the call to the grandfather was 60. The call to the grandfather was to plan a vacation (clue 10). By clue 9, the one who called the aunt didn't discuss buying a car; Scott did. By elimination, the aunt gave relationship advice. Heidi talked for 110 minutes, and the call to the brother was 100 minutes (clue 9). Scott didn't call the sister (clue 2) or the cousin (clue 5), so he called the uncle. By clue 3, then, Louisa talked for 100 minutes. Wes's call wasn't 60 minutes (clue 8). By clue 5, it was 80 minutes and the one to the cousin 120. By elimination, Adam called the sister. Denise called the grandfather (clue 7). By elimination, Kyle called the cousin. In summary:

Adam, sister, job, 70
Denise, grandfather, vacation, 60
Heidi, aunt, relationship, 110
Kyle, cousin, stocks, 120
Louisa, brother, gifts, 100
Scott, uncle, car, 90
Wes, mother, recipe, 80

LOGIC PROBLEM 14

The five of spades was C3, A1 and E5 were twos, A5 was a six, E1 was a four, B2 and D2 were spades, B4 was a heart, and D4 was a diamond. Since no row or column had two cards of the same value (clue 1), the lowest possible total for any row or column containing five cards was 15 (1 + 2 + 3 + 4 + 5 = 15). By the introduction, then, row 4, with a total value of 14, was the row that had only four cards. Column A totaled 15 and A5 was a six, so column A was the column that contained only four cards; there was no card for A4. Since the total value for row 1 was 20, it had a two, three, four, five, and six, in some order. The total value for row 2 was 19, so it contained an ace, three, four, five, and six, in some order. The total value for row 3 was 15; it had an ace, two, three, four, and five, in some order. Since the total value for row 5 was 16, it contained an ace, two, three, four, and six, in some order. The total value for column B was 19, so it had an ace, three, four, five, and six, in some order. The total value for column C was 17; it contained an ace, two, three, five, and six, in some order. Since the total value for column D was 15, it had an ace, two, three, four, and five, in some order. The total value for column E was 18, so it contained an ace, two, four, five, and six, in some order. The two in column C, then, was C4, the two in column D was D3, and E3 was an ace. If the five in row 2 were A2, A3 would have been a two. This, however, contradicts clue 1. Therefore, the five in row 2 wasn't A2; it was E2, and E4 was a six. By clue 3, since C4 wasn't a diamond, heart, or spade, it was a club. D3, a two, wasn't a diamond or spade (also clue 3), so it was a heart. By clue 2, E4 was the six of spades. The six in column B, then, was B1, the five in row 1 was D1, and the three in row 1 was C1. Since the five in column B was B4, D4 was an ace. The six in column C, then, was C2, the ace in column C was C5, and the ace in column B was B2. By clue 3, C5 wasn't the ace of clubs, so it was the ace of hearts, and E3 was the ace of clubs. The five of clubs wasn't E2 (also clue 3); it was D1, and the five of diamonds was E2. By clue 3 again, since E5 wasn't the two of spades, it was the two of diamonds, and A1 was the two of spades. E1 was the four of hearts, and A2 and C2 were a club and a heart, in some order, so the diamond in column C was C1 (clue 2). By clue 3, the six of diamonds wasn't B1 or C2; it was A5. Since the four of diamonds wasn't A2 or A3 (clue 2) or B5 or D5 (clue 3), it was B3. A3 was a three, then, A2 was a four, D2 was a three, D5 was a four, and B5 was a three. By clue 3, the three of hearts wasn't B5, so it was A3, and the three of clubs was B5. The four of spades wasn't A2 (also clue 3); it was D5, and the four of clubs was A2. By clue 2, C2 was the six of hearts. By elimination, the six of clubs was B1. In summary:

A1: two of spades, A2: four of clubs, A3: three of hearts, A4: no card, A5: six of diamonds
B1: six of clubs, B2: ace of spades, B3: four of diamonds, B4: five of hearts, B5: three of clubs
C1: three of diamonds, C2: six of hearts, C3: five of spades, C4: two of clubs, C5: ace of hearts
D1: five of clubs, D2: three of spades, D3: two of hearts, D4: ace of diamonds, D5: four of spades
E1: four of hearts, E2: five of diamonds, E3: ace of clubs, E4: six of spades, E5: two of diamonds

LOGIC PROBLEM 15

Two women and two men sat at each table (introduction). By clue 7, the person in B3 was Fred, Doris, Mr. Bailey, or Mrs. Hamilton. Similarly, the person in B3 was Helen, Bill, Mrs. Dalton, or Mr. Chambers (clue 10). By clue 2, Doris isn't Mrs. Dalton, Bill isn't Mr. Bailey, and Helen isn't Mrs. Hamilton. The one in B3, then, was Fred Chambers. By clue 2, his wife isn't Flora. Since Doris was in a 3 seat (clue 7), Fred's wife also isn't Doris (clue 1). By clue 3, then, Fred's wife was in C4. Earl and Bev are a couple, and one of them was in an A seat (clue 6). They aren't the Elkhorns or the Baileys (clue 2), so Earl sat in D1 (clue 3), and Bev was in an A seat. By clue 9, Elyse's husband was in a 2 seat. He isn't Mr. Elkhorn (clue 2) or Mr. Bailey, who sat in a 3 seat (clue 7). If Elyse's husband were Hank, both Hank and his wife would have been in 2 seats (clue 9). This, however, contradicts clue 1. Therefore, Elyse's husband isn't Hank; by clue 3, he's Calvin. Mr. Hamilton was in a 2 seat (clue 11). He isn't Hank (clue 2), Doris's husband (clue 7), or Calvin (clue 11). By clue 3, he's Flora's husband. Since Mrs. Dalton was at table B with Bill, Fred, and Helen (clue 10), she isn't Bev. She also isn't Doris (clue 2), Alice, Gloria (clue 4), or Cathy (clue 5); she's Elyse. Mrs. Chambers in C4 isn't Cathy (clue 2), Doris (clue 3), or Helen (clue 10), so she's either Alice or Gloria. By clue 4, Alice and Gloria were both at table C. The one in C3, then, was Mr. Bailey (clue 7). By clue 10, Cathy wasn't at table B. If she were at table A, neither Doris nor Flora would have been in A3. This, however, contradicts clue 7. Therefore, Cathy wasn't at table A; she was at table D. By clue 7, Cathy wasn't in D3. If she had been in D2, Elyse would have been in B2 (clue 5). However, this contradicts clue 1. Therefore, Cathy wasn't in D2; she was in D4. By clue 5, then, Elyse was in B4. Gary wasn't in D3 (clue 7), so he was in D2 (clue 5). By clue 9, Hank's wife was in a 2 seat. Since she isn't Helen or Flora (clue 2) or Doris (clue 3), she's either Alice or Gloria. By clue 9, then, she was in C2. Calvin wasn't in B2 (clue 10), so he was in A2 (clue 9). Bev wasn't in A1 (clue 1) or A3 (clue 7); she was in A4. By clue 11, since Mr. Hamilton was in a 2 seat, he sat in either B2 or D2. If he had sat in B2, he would be Bill (clue 10). This, however, contradicts clue 7. Therefore, Mr. Hamilton wasn't in B2; he was in D2. By clue 1, Flora wasn't in D3, so Doris was. Flora, then, was in A3 (clue 7). Since Hank wasn't in C1, C3 (clue 1), B1, or B2 (clue 10), he was in A1. By clue 3, Mr. Elkhorn wasn't in A1, B1, C1, or D1; he was in B2. He's Bill, then, and Helen was in B1 (clue 10). Mrs. Elkhorn wasn't in B1 or C2 (clue 1) or D3 (clue 3), so she was in D4. By clue 1, since Mrs. Bailey wasn't in C2 or D3, she was in B1. Mrs. Gardner wasn't in A4 or D3 (clue 8); she was in C2. By elimination, Hank is Mr. Gardner. By clue 2, Mrs. Gardner isn't Gloria, so she's Alice. By elimination, Gloria was in C4 and Doris's husband was in C1. Since he isn't Doug (clue 2), he's Arnie and Doug is Mr. Bailey. Arnie and Doris aren't the Andersons (also clue 2), so they're the Fischers. By elimination, Bev and Earl are the Andersons. In summary:

A1: Hank Gardner, A2: Calvin Dalton, A3: Flora Hamilton, A4: Bev Anderson
B1: Helen Bailey, B2: Bill Elkhorn, B3: Fred Chambers, B4: Elyse Dalton
C1: Arnie Fischer, C2: Alice Gardner, C3: Doug Bailey, C4: Gloria Chambers
D1: Earl Anderson, D2: Gary Hamilton, D3: Doris Fischer, D4: Cathy Elkhorn

ON THE RUN

The man travels 1/6 of a mile east in one minute, and Car B travels 4/6 of a mile west in one minute. Together, they travel 5/6 mile in one minute, so in six minutes they will have traveled the five miles between them. The man, then, will have traveled one mile and Car B four miles. Since Car A travels a mile east in one minute, in six minutes it will have traveled six miles and met the man who will have travelled one mile.

IN THE BALANCE

Four triangles. Scale 1's two triangles equal three circles, and scale 2's one circle equals one square, so three squares equal two triangles. Since scale 3's three squares equal one star, two triangles equal one star. Two stars, then, equal four triangles, which balance scale 4.

WHAT'S YOUR NUMBER?

Our number is 10, so your number is 2.

FIGURE IT OUT!

1. 50% off the original price. For example, if the jacket originally cost $100, a 10% markdown would yield a $90 price, and a further 40% markdown would make it $54. A 50% markdown, however, would reduce the price to $50. 2. Six. Since there are three different colors, the first three socks picked could all be different colors. Once four socks are picked, there would have to be at least one pair. A fifth sock, though, might match the pair but neither of the single socks, so a sixth would have to be picked to guarantee a second pair. 3. A = 9, B = 1, and C = 0. 4. 75 daffodils, 50 tulips, and 25 hyacinths.

ALL IN A ROW

Row C. There are 9 groups in row A: 5552, 269, 16433, 333332, 3329, 98, 15812, 81242, and 755. There are 7 groups in row B: 494, 494, 15551, 7325, 3338, 3842, and 2663. There are 10 groups in row C: 872, 3815, 566, 962, 212345, 458, 89, 971, 71522, and 5222222.

THE EARL OF SANDWICHES

Monday's meeting requires 70 sandwiches, Tuesday's 64, Wednesday's 50, Thursday's 55, and Friday's 76.

NUMBER DECATHLON

Event A: 2 (first number equals the sum of the second and third minus the sum of the fourth and fifth); Event B: 45 (the son is 5 today); Event C: 47 (2 x 2 + 1 = 5, 5 x 2 + 1 = 11, 11 x 2 + 1 = 23, 23 x 2 + 1 = 47); Event D: 90; Event E: 22; Event F: 16; Event G: 17; Event H: 35; Event I: 9; Event J: 6 (31 + 30 + 31 = 92, 92 ÷ 4 = 23, 23 x 6 = 138, 138 – 24 = 114, 1 + 1 + 4 = 6). Winning number: 30.

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FIGURE LOGIC HELPS

1. By clue 14-Down, 14-Down's first digit is 1. 15-Across's first digit, then, is 1 (clue 15-Across). By clue 18-Across, 18-Across is 109 and 15-Down is 199.
2. By clue 15-Across, 20-Down is at least 110 but no greater than 119. 16-Across's first digit, then, is 1 (clue 24-Across). By clue 20-Down, 20-Down is 119 and 14-Down is 714.
3. By clue 9-Across, 19-Across's last digit is 5. 27-Across's last digit, then, is 4 (clue 19-Across). By clue 27-Across, 29-Down's first digit is 4, so 29-Down is 45 (clue 29-Down).
4. Since 25-Across's first digit is 1 (clue 25-Across), 24-Down's is also (clue 24-Down). By clue 20-Across, 20-Across's last digit is 1. 30-Down's first digit is 1 (clue 23-Across); 4-Down's first digit, then, is 3 (clue 4-Down). By clue 30-Down, 12-Across's first digit is 1. 20-Down's first digit is 2 (clue 20-Down), so 20-Across is 21.
5. 16-Across's first digit is 1, 2, or 3 (clue 16-Across), so 23-Down's first digit is 1 (clue 23-Down). By clue 26-Down, 20-Across's first digit is 1, 2, or 3. 21-Down's last digit, then, is 1, 2, or 3 (clue 20-Across), and 23-Down's last digit is 0, 1, or 2 (clue 21-Down). By clue 23-Down, 16-Down is 22.
6. 24-Down's first digit is 1 (clue 24-Down), so 16-Across's first digit is 4 (clue 16-Across) and 19-Down's first digit is 1 (clue 18-Across). By clue 12-Down, 20-Across's first digit is 4. 15-Down's last digit, then, is 4 (clue 17-Down), and 4-Down's first digit is 3 or 4 (clue 4-Down). By clue 15-Down, 15-Down is 14.
7. By clue 5-Down, 5-Down is either 27 or 64. 1-Across, then, is 123456 (clue 1-Across).
8. By clue 3-Across, 3-Across's last digit is 5.
9. 3-Down is at least 10, and since it is the square root of a 3-digit number (clue 3-Down), 3-Down is 31 or less.
10. By clue 1, 12-Across has no more than eight digits. 12-Across is the square of 9-Down (clue 6), which consists of consecutive digits in order (clue 8). 9-Down, then, is 01234 and 12-Across is 1522756.

CROSS SUMS HELPS

#1: 857	#11: 1358
#2: 8957	#12: 25847
#3: 789	#13: 19624
#4: 573	#14: 7845
#5: 387	#15: 4125
#6: 89347	#16: 3954718
#7: 7392	#17: 7983
#8: 68954	#18: 74312
#9: 892	#19: 421
#10: 142	#20: 324

CROSSMATH HELP

19-Across is 8 + 2.

KROSS NUMBER HELPS

#1: 046178 #2: 57798834

WORD ARITHMETIC

	0	1	2	3	4	5	6	7	8	9
1.	F	R	E	A	K	I	S	H	L	Y
2.	U	P	H	O	L	S	T	E	R	Y
3.	T	O	W	N/	S	Q	U	A	R	E
4.	R	O	C	K	E	T/	S	H	I	P
5.	G	A	R	D	E	N/	S	P	O	T
6.	N	I	G	H	T	C	L	U	B	S
7.	R	O	U	N	D/	F	L	A	S	K
8.	S	M	O	L	D	E	R	I	N	G
9.	A/	R	O	B	U	S	T/	K	I	D
10.	B	I	G/	R	O	M	A	N	C	E

11.	M	O	D	E	R	N/	F	L	A	T					
12.	B	U	L	K	Y/	C	A	R	G	O					
13.	L	O	B	S	T	E	R/	D	I	P					
14.	P	O	K	E	R/	H	A	N	D	S					
15.	H	U	M	B	L	E/	S	O	R	T					
16.	P	R	E	C	A	U	T	I	O	N					
17.	M	A	N	L	Y/	V	O	I	C	E					
18.	R	U	S	T	I	C/	H	O	M	E					
19.	S	I	D	E/	O	F/	L	A	M	B					
20.	B	R	I	G	H	T/	C	O	E	D					
21.	H	E	R/	O	W	N/	D	I	G	S					
22.	G	R	E	A	T/	M	I	N	D	S					
23.	S	Y	N	D	I	C	A	T	O	R					
24.	R	E	M	A	I	N/	S	H	U	T					
25.	F	I	N	A	L/	S	C	O	R	E					
26.	C	L	A	Y/	P	I	G	E	O	N					
27.	T	O/	H	A	N	D	P	I	C	K					
28.	Q	U	I	C	K/	R	E	P	L	Y					
29.	L	Y	R	I	C/	P	O	E	T	S					
30.	G	R	A	V	E/	D	O	U	B	T					
31.	H	E/	R	U	N	S/	W	I	L	D					
32.	P	I	N	K/	G	L	O	V	E	S					
33.	F	I	L	M/	P	O	S	T	E	R					
34.	O	L	D/	S	U	B	J	E	C	T					
35.	D	E	S	I	G	N	A	T	O	R					
36.	B	L	O	C	K	H	E	A	D	S					
37.	C	O	M	P	L	A	I	N	T	S					
38.	R	I	G	H	T/	F	L	A	N	K					
39.	R	O	D	E/	S	U	B	W	A	Y					
40.	M	Y	S	T	I	C/	D	A	W	N					
41.	Y	O	U/	C	H	A	S	E/	I	T					
42.	T	R	U	C	K	L	O	A	D	S					
43.	P	L	A	Y	W	R	I	G	H	T					
44.	R	E	D/	P	L	A	S	T	I	C					
45.	L	A	T	I	N/	V	E	R	B	S					
46.	T	W	Q	V	Z	P	R	M	X						
47.	P	R	F	M	Z	G		L	C	J					
48.		A	I	D	H	T	N	B	P	W					
49.	L	G	V	C	Y	A	Q	H	T						

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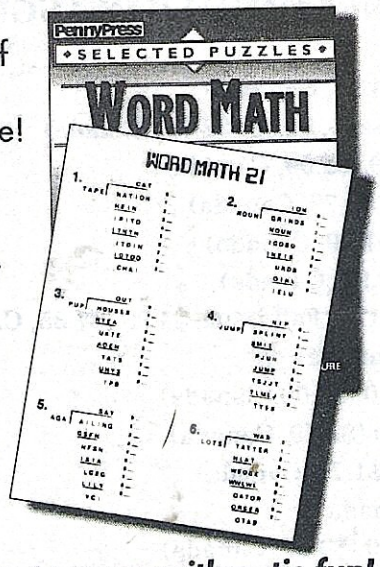

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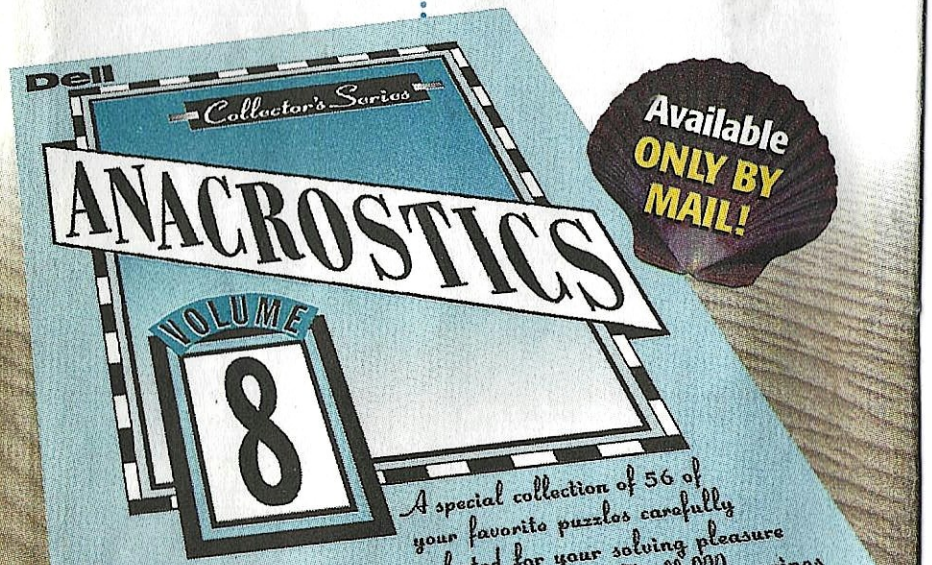
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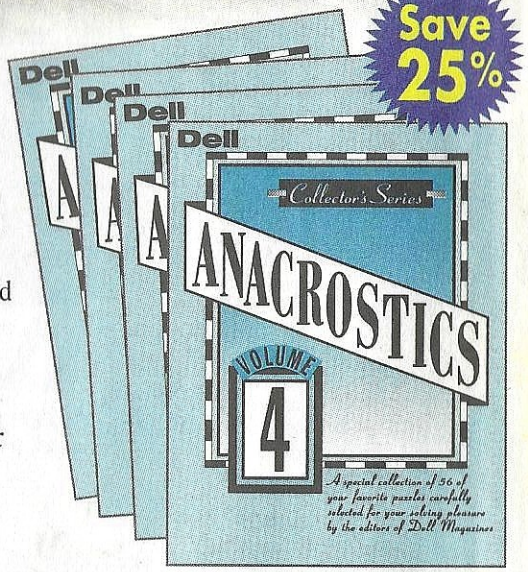
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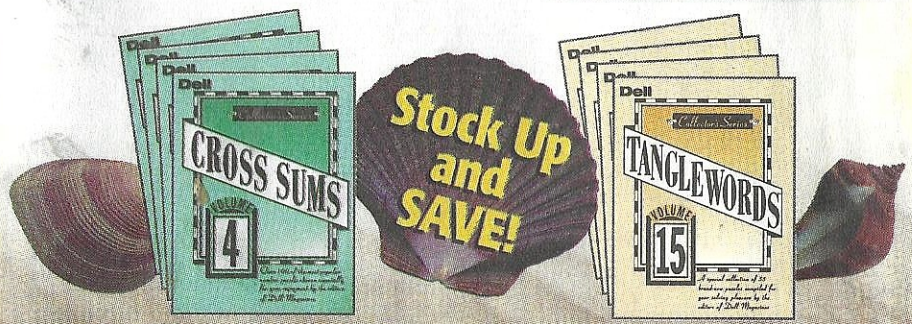

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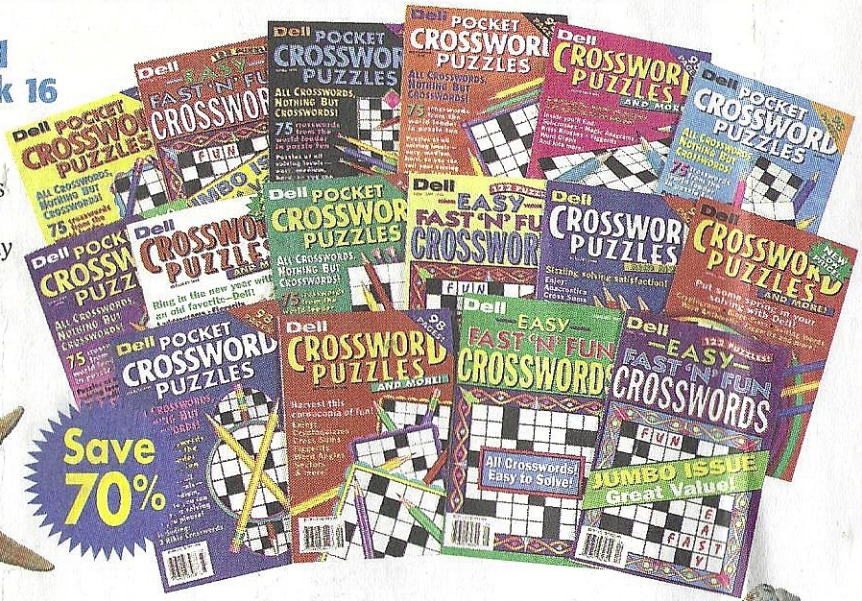

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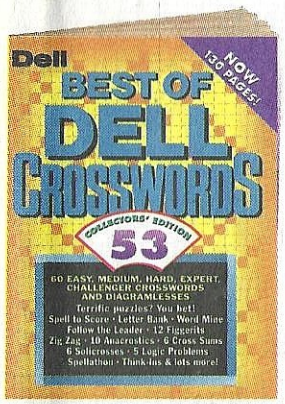
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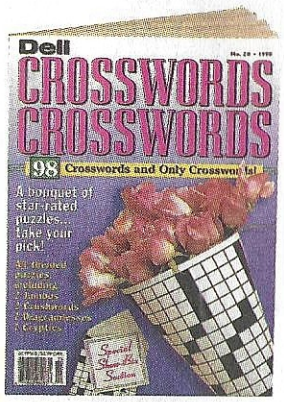

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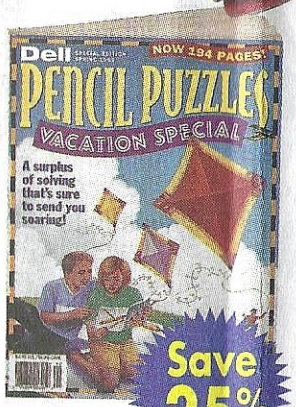

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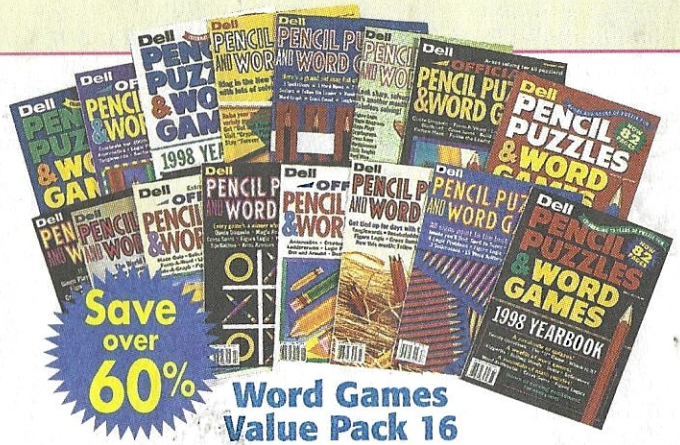

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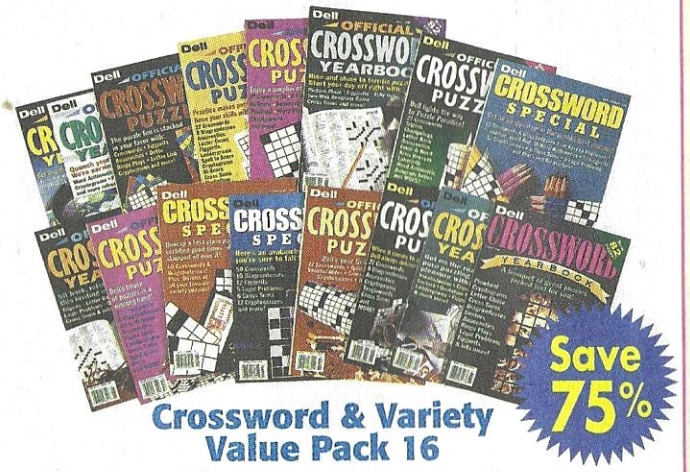

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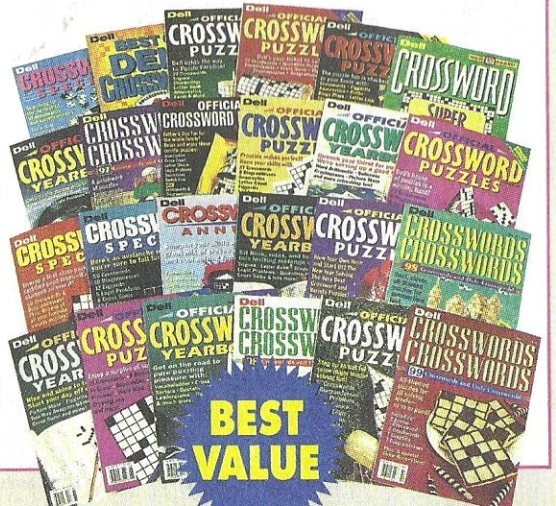

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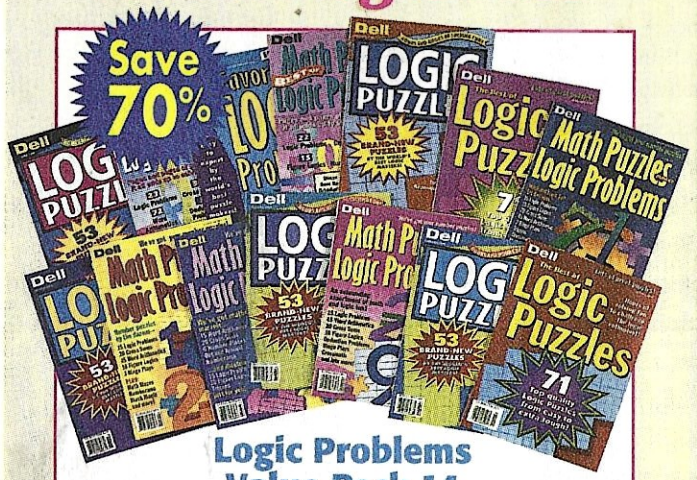

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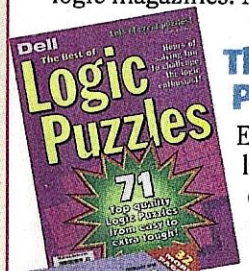

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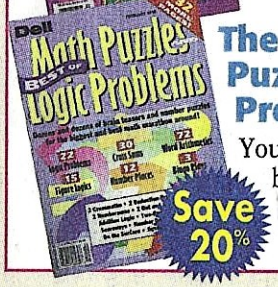

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